

# Beaufort County Base Labor Market Analysis



South Carolina  
Department of  
Commerce  
Labor Market Information



August 2009



## TABLE OF CONTENTS

<b>EXECUTIVE SUMMARY .....</b>	<b>5</b>
<b>POPULATION .....</b>	<b>6</b>
<b>Growth.....</b>	<b>6</b>
<b>LABORSHED.....</b>	<b>7</b>
<b>Characteristics of Workers .....</b>	<b>7</b>
<b>INCOME .....</b>	<b>9</b>
<b>Per Capita Income .....</b>	<b>9</b>
<b>Wages by Industry .....</b>	<b>10</b>
<b>Wages by Occupation.....</b>	<b>11</b>
<b>EDUCATION .....</b>	<b>12</b>
<b>High School Graduates.....</b>	<b>12</b>
<b>Higher Education Graduates.....</b>	<b>13</b>
<b>OCCUPATIONS.....</b>	<b>15</b>
<b>Occupational Projections.....</b>	<b>15</b>
<b>Occupational Education Requirements.....</b>	<b>16</b>
<b>INDUSTRY .....</b>	<b>17</b>
<b>Businesses by Sector.....</b>	<b>17</b>
<b>Growth in Number of Businesses .....</b>	<b>18</b>
<b>Employment by Sector .....</b>	<b>19</b>
<b>Industry Analysis .....</b>	<b>20</b>
<b>MOVING FORWARD.....</b>	<b>21</b>
<b>Appendix A: Occupational Projections</b>	
<b>Appendix B: Businesses by 3-digit NAICS Codes</b>	
<b>Appendix C: Employment by Industry Sector</b>	



## EXECUTIVE SUMMARY

### Population

*Beaufort County's population growth has been faster than the state's in recent years.*

Future growth is expected to continue to be faster than the state's.

*Three fourths of Beaufort County's workers live within the county.*

### Income

*Per capita income growth has been faster than in the state and nation.*

Beaufort County's per capita income has remained above state and national levels from 1997 to 2007.

Beaufort County's average wages are higher than the state's for the community and social services; education, training and library; arts, design, entertainment, sports and media; healthcare practitioners and technical; healthcare support; protective service; food preparation and serving related; building and grounds cleaning and maintenance; personal care and service; sales and related; office and administrative support; farming and forestry; and construction and extraction occupational groups.

### Education

*The number of degrees awarded by area post-secondary institutions has increased.*

The greatest increase has been in the area of healthcare.

### Occupations

*The following occupational groups are expected to have faster growth in Beaufort County than in the state:*

Management; business and financial operations; computer and mathematical science; life, physical and social science; community and social services; legal; education, training and library; arts, design, entertainment, sports and media; healthcare support; sales and related; office and administrative support; farming and forestry; installation, maintenance and repair; production; and transportation and material moving.

*Requirements for Beaufort County's workers are expected to grow in the following levels of education and experience:*

Work experience in a related field, postsecondary vocational award, associate's degree, bachelor's degree, and master's degree or higher.

### Industry

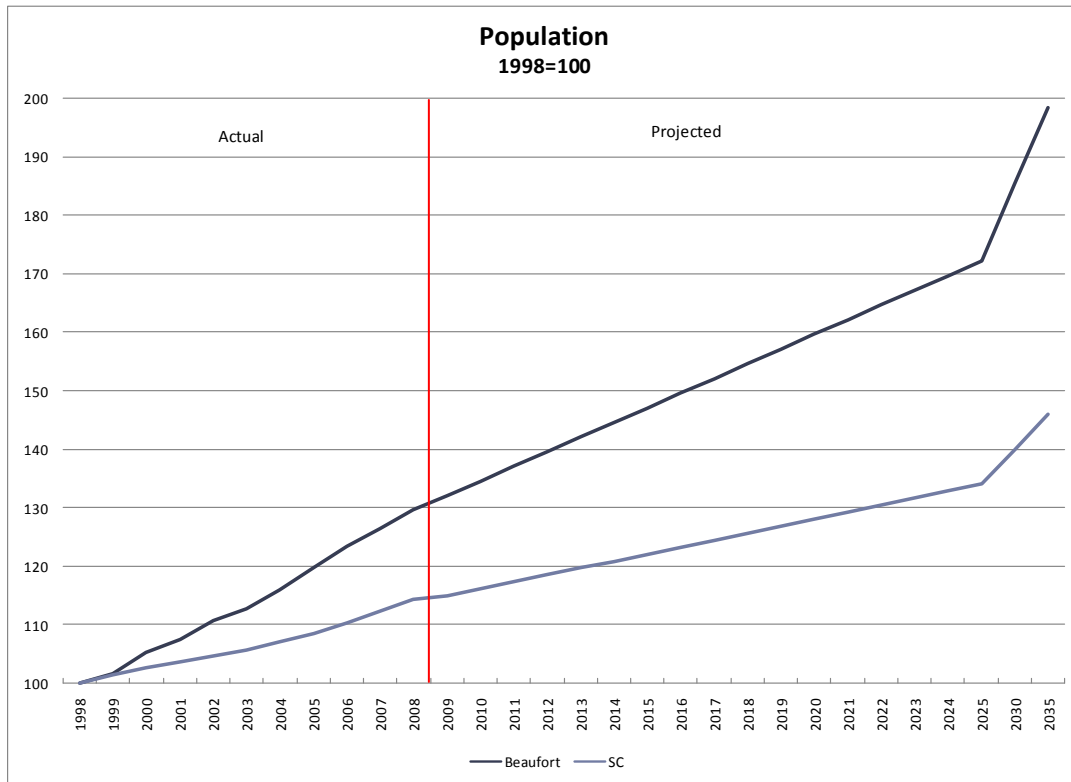
*These sectors are rated as having potential in Beaufort County:*

Real estate, management of companies and enterprises, specialty trade contractors, and construction of buildings.

## POPULATION

### Growth

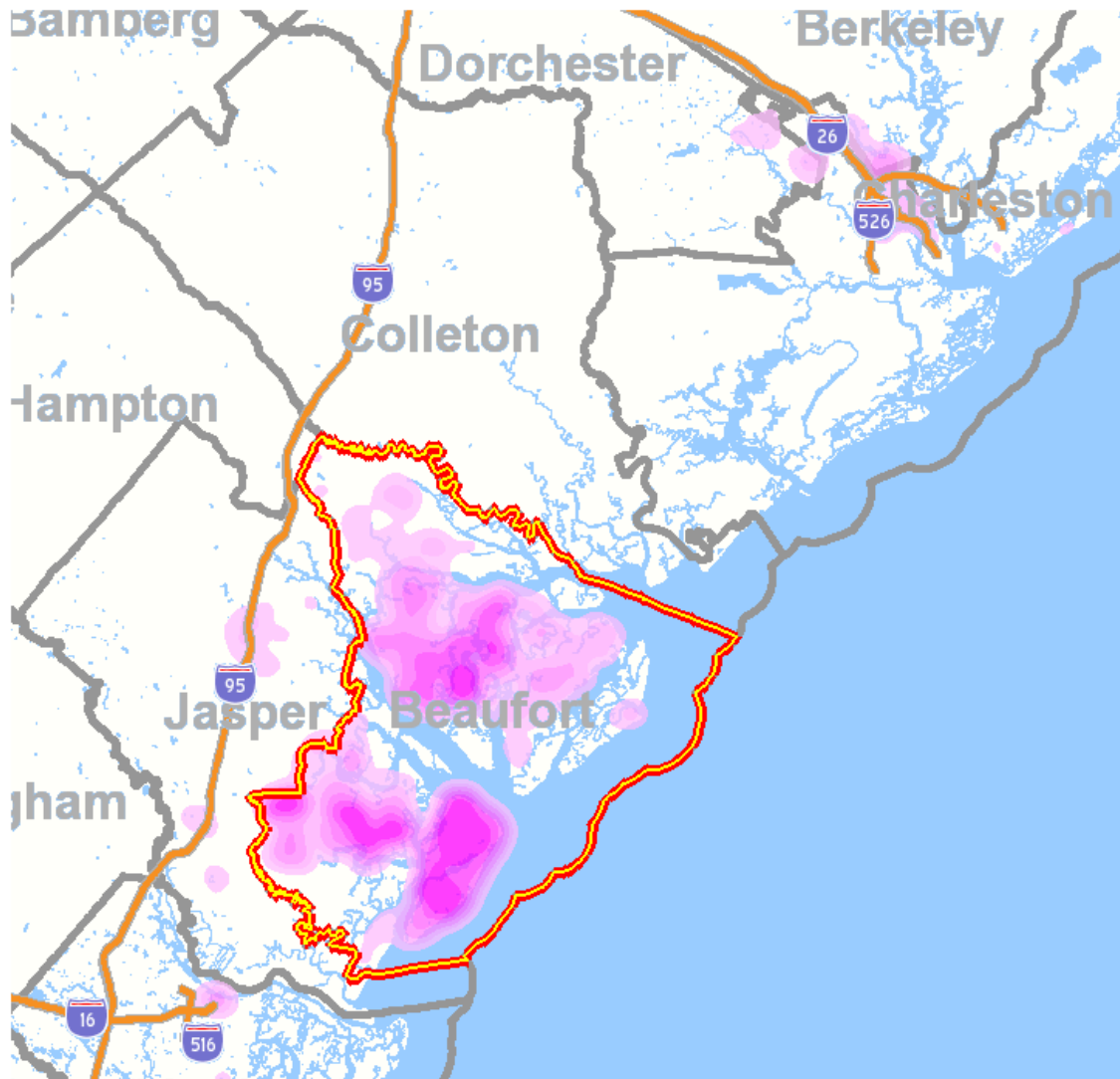
Beaufort County's 2008 population was 150,415. The county population has grown by 29.7% since 1998, compared to 14.3% growth for South Carolina. Beaufort's future population growth is expected to continue to be faster than the state's.



Source: U.S. Census Bureau (estimates) and SC Budget & Control Board/Office of Research and Statistics (projections).

## LABORSHED

The map below shows where Beaufort County workers come from (in 2006, latest available data). Beaufort County draws over three fourths of its workers from within its borders.



Source: U.S. Census Bureau, Local Employment Dynamics.

### Characteristics of Workers

#### Age of Workers:

30 or younger	28.9%
31 to 54	52.2%
55 or older	19.0%

#### Earnings of Workers:

\$1,200 per month or less	30.1%
\$1,201 to \$3,400 per month	45.0%
More than \$3,400 per month	24.9%

### **States Where Workers Live:**

South Carolina	94.7%
Georgia	4.5%
All other locations	0.8%

### **Counties Where Workers Live:**

Beaufort	76.9%
Charleston	3.2%
Jasper	2.7%
Chatham	2.6%
Lexington	2.0%
Dorchester	1.5%
Berkeley	1.3%
Colleton	1.1%
Spartanburg	0.9%
Williamsburg	0.8%
All Other Locations	7.0%

### **Cities Where Workers Live:**

Hilton Head Island, South Carolina	25.8%
Beaufort, South Carolina	7.0%
Bluffton, South Carolina	3.5%
Port Royal, South Carolina	3.4%
Burton, South Carolina	2.9%
North Charleston, South Carolina	2.0%
Laurel Bay, South Carolina	1.7%
Savannah, Georgia	1.4%
Hanahan, South Carolina	1.1%
Shell Point, South Carolina	1.0%
All Other Locations	50.2%

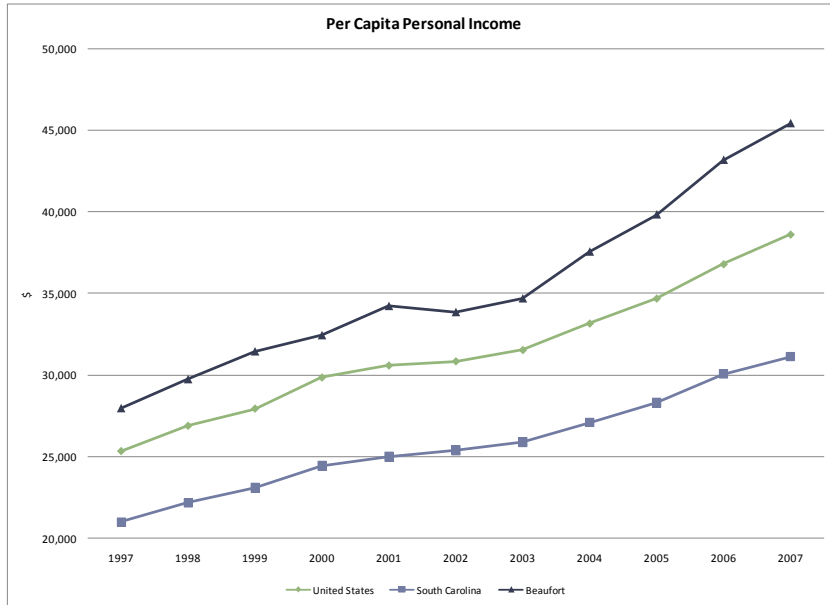
*Source: U.S. Census Bureau, Local Employment Dynamics.*



## INCOME

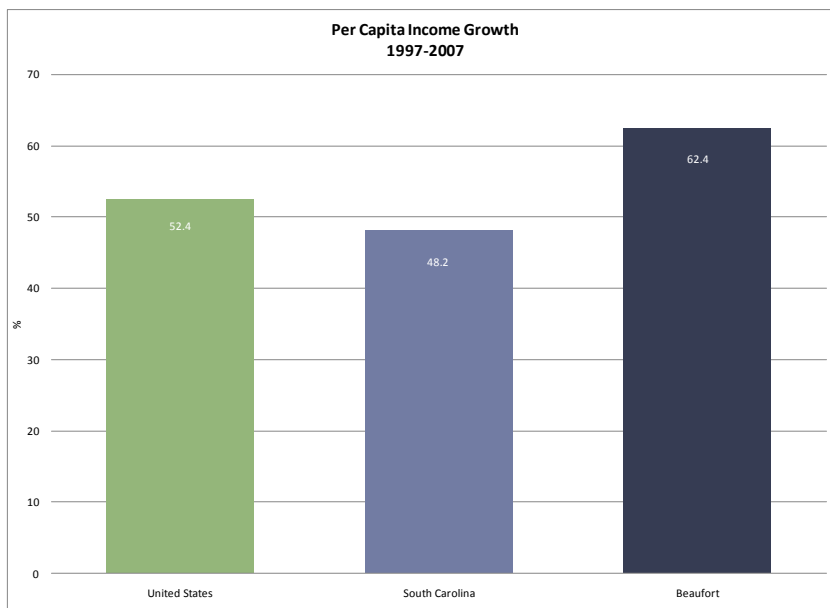
### Per Capita Income

Beaufort County's per capita income has remained above state and national levels, one of only two counties in South Carolina to do so.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Beaufort County's per capita income has grown faster than South Carolina's and the nation's, despite rapid population growth. Income growth was substantially above average.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

## Wages by Industry

Beaufort County's average wages are below those of South Carolina (\$619 vs. \$697 in 2008). Average wages were up 14% in Beaufort County over the past five years, compared to 18% for the state. All major sectors except manufacturing had growth.

Industry	NAICS Code	2008 Average Weekly Wage (\$)	2003 Average Weekly Wage (\$)	% Change
Total, Private and Government		619	541	14
Construction	23	730	635	15
Manufacturing	31-33	733	739	-1
Retail Trade	44-45	463	433	7
Transportation and Warehousing	48-49	649	460	41
Information	51	1,014	878	15
Finance and Insurance	52	1,080	1,062	2
Real Estate and Rental and Leasing	53	700	606	16
Professional, Scientific & Technical Services	54	1,075	1,006	7
Administration & Support & Waste Management & Remediation Services	56	498	413	21
Educational Services	61	550	514	7
Health Care & Social Assistance	62	719	649	11
Arts, Entertainment and Recreation	71	399	380	5
Accommodation and Food Services	72	353	309	14
Other Services (Except Public Administration)	81	540	472	14
Federal Government		823	679	21
State Government		702	585	20
Local Government		832	621	34

Source: U.S. Department of Labor, Bureau of Labor Statistics, Quarterly Census of Employment and Wages.

## Wages by Occupation

Average wages in Beaufort County are higher than the state average in the following occupational groups:

- Community and social services
- Education, training and library
- Arts, design, entertainment, sports and media
- Healthcare practitioners and technical
- Healthcare support
- Protective service
- Food preparation and serving related
- Building and grounds cleaning and maintenance
- Personal care and service
- Sales and related
- Office and administrative support
- Farming and forestry
- Construction and extraction

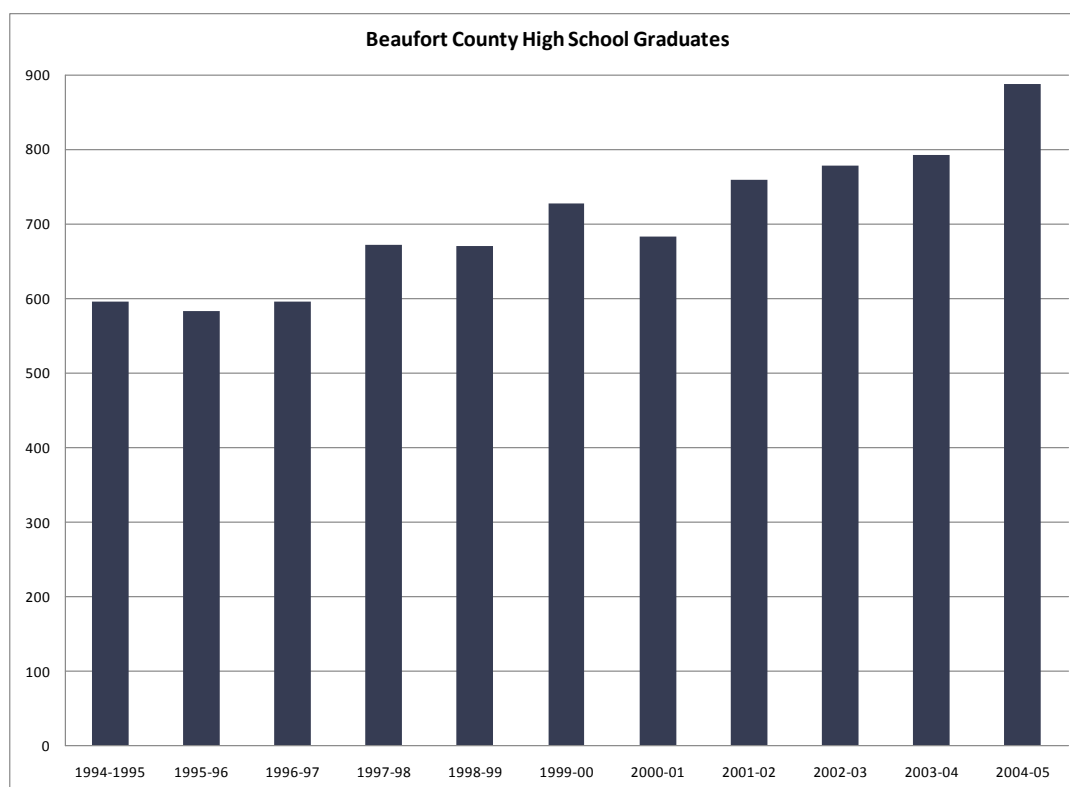
Occupation	2009 Beaufort County Median Hourly Wage (\$)	2009 SC Median Hourly Wage (\$)
Management occupations	22.85	23.49
Business and financial operations occupations	16.96	19.14
Computer and mathematical science occupations	21.29	25.83
Architecture and engineering occupations	23.68	28.98
Life, physical and social science occupations	20.54	21.12
Community and social services occupations	15.06	12.94
Legal occupations	23.34	25.39
Education, training and library occupations	24.71	22.66
Arts, design, entertainment, sports and media occupations	12.58	12.27
Healthcare practitioners and technical occupations	30.51	28.56
Healthcare support occupations	12.02	10.74
Protective service occupations	16.71	14.37
Food preparation and serving related occupations	9.17	8.18
Building and grounds cleaning and maintenance occupations	10.62	8.75
Personal care and service occupations	9.28	8.41
Sales and related occupations	11.03	11.00
Office and administrative support occupations	13.37	13.06
Farming, fishing, and forestry occupations	11.39	10.85
Construction and extraction occupations	15.75	14.10
Installation, maintenance and repair occupations	15.45	16.19
Production occupations	12.75	14.75
Transportation and material moving occupations	11.76	12.65

Source: Economic Modeling Specialists, Inc.

## EDUCATION

### High School Graduates

From 1995 to 2005 (latest data available), the number of Beaufort County students receiving high school diplomas rose by 293 (49%). In South Carolina, on the other hand, the number of high school diplomas increased 9% from 1995 to 2005. A total of 888 people received high school diplomas in Beaufort County in 2005. Beaufort County had 343 more 12<sup>th</sup> grade students in 2004-05 than in 1994-95. Also, the number of Beaufort County students not passing the exit exam who received a certificate of completion instead of a diploma was up by 51 (to 87) over the 1995-2005 period.



Source: National Center for Education Statistics.

## Higher Education Graduates

Almost 4,600 more students graduated from higher educational institutions in the Lowcountry area in 2007 than in 1997, an increase of 50%. The greatest numerical increase was in the healthcare field.

Program	1997	2007	Change	% Change
Agriculture, agriculture operations and related sciences	36	8	-28	-78
Architecture and related services	38	159	121	318
Area, ethnic, cultural and gender studies	--	6	--	--
Biological and biomedical sciences	396	455	59	15
Business, management, marketing & related support services	1,239	1,779	540	44
Communication, journalism and related programs	205	392	187	91
Communications technologies/technicians & support services	25	312	287	1,148
Computer and information sciences and support services	192	355	163	85
Construction trades	7	98	91	1,300
Education	1,140	1,082	-58	-5
Engineering technologies/technicians	268	322	54	20
Engineering	67	74	7	10
English language and literature/letters	159	167	8	5
Family and consumer sciences/human sciences	141	258	117	83
Foreign languages, literatures and linguistics	40	135	95	238
Health professions and related clinical sciences	1,767	2,893	1,126	64
Legal professions and studies	74	101	27	36
Liberal arts and sciences, general studies and humanities	583	620	37	6
Mathematics and statistics	93	86	-7	-8
Mechanic and repair technologies/technicians	157	397	240	153
Multi/interdisciplinary studies	58	135	77	133
Natural resources and conservation	34	30	-4	-12
Parks, recreation, leisure and fitness studies	17	66	49	288
Personal and culinary services	111	276	165	149
Philosophy and religious studies	39	70	31	79
Physical sciences	112	127	15	13
Precision production	186	85	-101	-54
Psychology	282	348	66	23
Public administration and social service professions	122	165	43	35
Science technologies/technicians	23	13	-10	-43
Security and protective services	214	450	236	110
Social sciences and history	527	682	155	29
Theology and religious vocations	4	21	17	425
Transportation and materials moving	124	168	44	35
Visual and performing arts	615	1,346	731	119
TOTAL	9,095	13,681	4,586	50

*Source: National Center for Education Statistics (Integrated Post Secondary Education System).*

*Data for these schools: Armstrong Atlantic State University (GA), Beta Tech, Charleston Southern University, Citadel, Claflin University, College of Charleston, Denmark Technical College, Medical University of South Carolina, Miller-Motte Technical College, Orangeburg Calhoun Technical College, Savannah College of Art and Design (GA), Savannah State University (GA), Savannah Technical College (GA), South Carolina State University, South University-Savannah (GA), Southern Methodist College, Technical College of the Lowcountry, Trident Technical College, University of Phoenix-Savannah Campus (GA), University of South Carolina-Beaufort, University of South Carolina-Salkehatchie, Voorhees College.*

## OCCUPATIONS

### Occupational Projections

The following occupational groups are projected to grow faster in Beaufort County than in the state:

- Management
- Business and financial operations
- Computer and mathematical science
- Life, physical and social science
- Community and social services
- Legal
- Education, training and library
- Arts, design, entertainment, sports and media
- Healthcare support
- Sales and related
- Office and administrative support
- Farming and forestry
- Installation, maintenance and repair
- Production
- Transportation and material moving

See **Appendix A** for detailed occupational information.

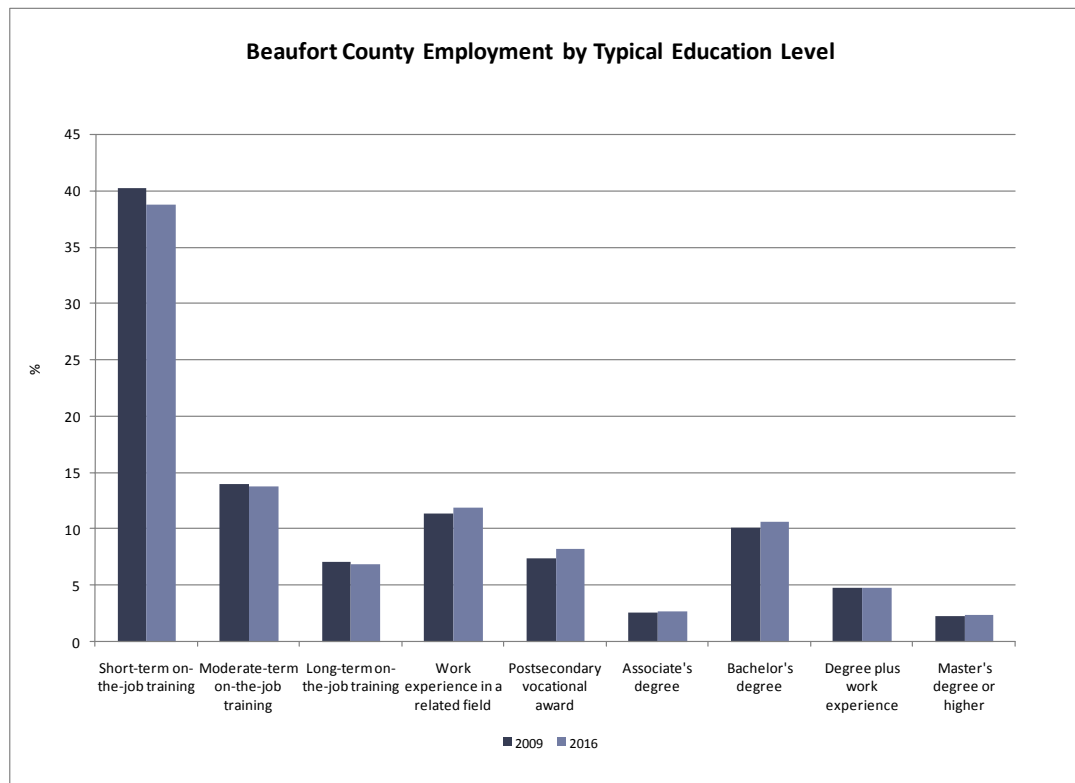
Occupation	2009-2016 Beaufort County Projected Growth (%)	2009-2016 SC Projected Growth (%)
Management occupations	19	13
Business and financial operations occupations	20	15
Computer and mathematical science occupations	22	15
Architecture and engineering occupations	10	11
Life, physical and social science occupations	13	10
Community and social services occupations	10	9
Legal occupations	18	17
Education, training and library occupations	11	10
Arts, design, entertainment, sports and media occupations	19	13
Healthcare practitioners and technical occupations	17	17
Healthcare support occupations	26	20
Protective service occupations	6	10
Food preparation and serving related occupations	6	9
Building and grounds cleaning and maintenance occupations	14	18
Personal care and service occupations	5	6
Sales and related occupations	23	16
Office and administrative support occupations	11	8
Farming, fishing and forestry occupations	8	6
Construction and extraction occupations	4	12
Installation, maintenance and repair occupations	14	12
Production occupations	10	-1
Transportation and material moving occupations	10	7

Source: Economic Modeling Specialists, Inc.

## Occupational Education Requirements

The trend for occupational growth shows that there will be growth in jobs across skill levels. Based on employment projections, Beaufort County is expected to see growth in requirements for the following specific levels of education and experience:

- Work experience in a related field
- Postsecondary vocational award
- Associate's degree
- Bachelor's degree
- Master's degree or higher



Source: Economic Modeling Specialists, Inc

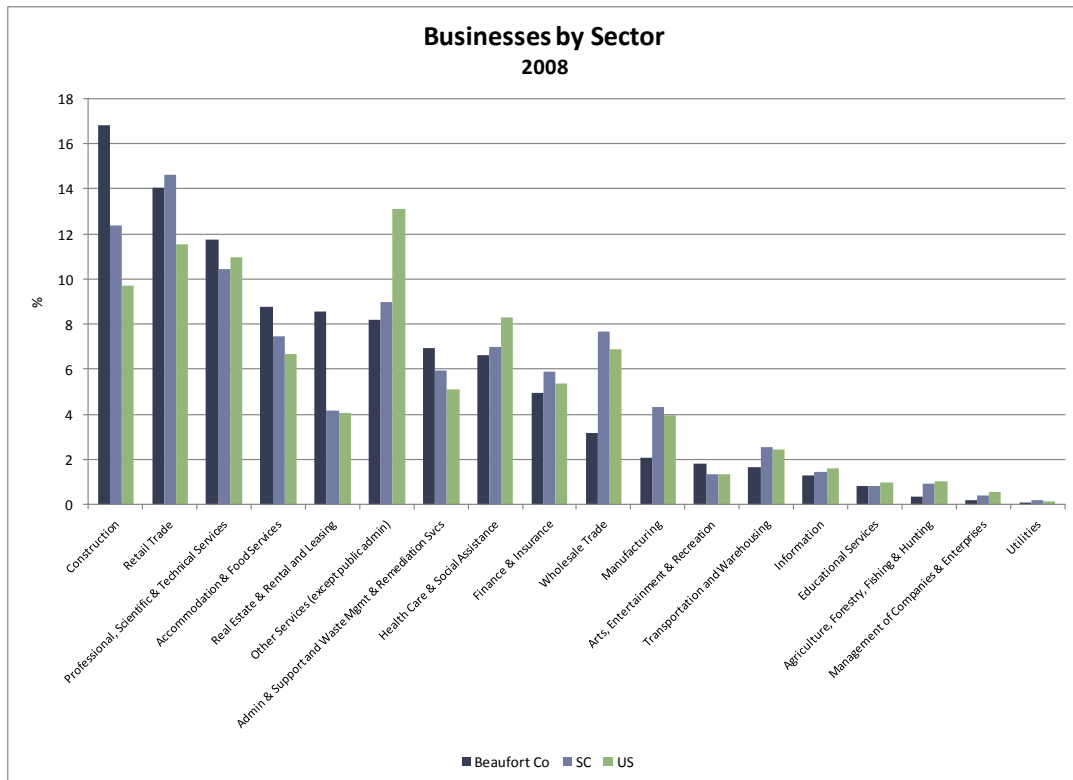


## INDUSTRY

### Businesses by Sector

Beaufort County had higher percentages of businesses than South Carolina and the nation in the following sectors:

- Construction
- Professional, scientific and technical services
- Accommodation and food services
- Real estate and rental and leasing
- Administration and support and waste management and remediation services
- Arts, entertainment and recreation



Source: U.S. Department of Labor, Bureau of Labor Statistics.

## Growth in Number of Businesses

The number of private businesses in Beaufort County rose by 4% from 2003 to 2008, compared to a 3% increase for the state. For industry definitions, this analysis uses the North American Industry Classification System (NAICS), the U.S. standard for industry classification.

At the three-digit NAICS code level, Beaufort County had higher growth in 18 industries compared to South Carolina and the U.S. Below is a list of those 18 industries along with their respective growth rates.

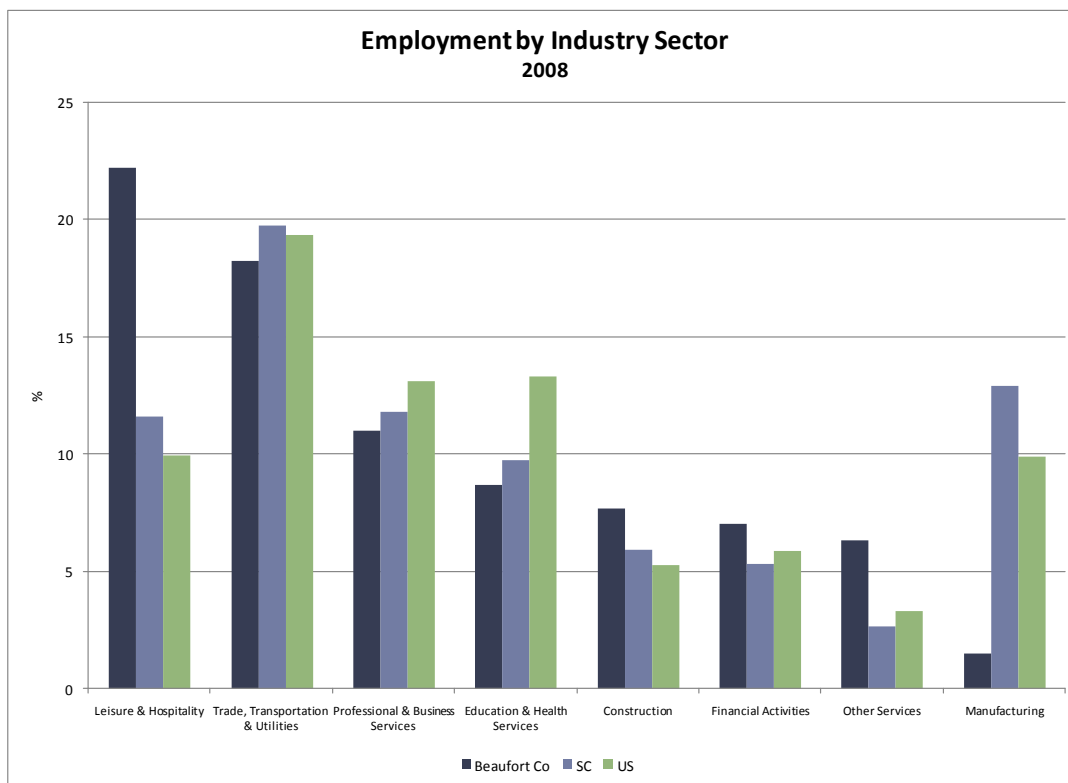
See **Appendix B** for information on all industries.

Industry	2003-2008 Growth (%)		
	Beaufort Co.	SC	US
Food Manufacturing	10.0	-6.0	-2.1
Textile Product Mills	75.0	2.6	-1.5
Nonmetallic Mineral Product Manufacturing	20.0	14.1	4.1
Miscellaneous Manufacturing	30.0	18.4	-0.4
Merchant Wholesalers, Durable Goods	9.9	-5.9	-3.6
Food and Beverage Stores	5.8	-9.7	-0.1
Gasoline Stations	3.6	-0.3	-2.2
Sporting Goods, Hobby, Book, and Music Stores	4.7	-7.0	-6.7
Support Activities for Transportation	41.7	3.4	9.9
Credit Intermediation and Related Activities	17.5	6.5	16.6
Insurance Carriers and Related Activities	7.5	4.3	5.0
Real Estate	27.9	22.1	18.2
Rental and Leasing Services	6.8	-8.8	1.3
Management of Companies and Enterprises	83.3	67.7	31.5
Ambulatory Health Care Services	17.1	10.2	12.4
Nursing and Residential Care Facilities	58.3	0.0	9.4
Accommodation	16.7	0.1	4.9
Repair and Maintenance	5.9	-13.2	-0.9

Source: U.S. Department of Labor, Bureau of Labor Statistics.

## Employment by Sector

Beaufort County has a larger than average share of its jobs in leisure and hospitality, construction, financial activities, and other services.



Source: U.S. Department of Labor, Bureau of Labor Statistics.

# Industry Analysis

## Screening Criteria

Industry sectors were rated on six factors:

- |                                    |                                 |
|------------------------------------|---------------------------------|
| • 2003-2008 employment growth      | Competitive effect <sup>1</sup> |
| • 2003-2008 employment growth rate | Average annual wage             |
| • Location quotient <sup>2</sup>   | Projected growth                |

Using those factors, sectors were awarded “stars” based on meeting the following criteria:

- 2003-2008 employment growth of 75 or more (Did the sector add a significant number of jobs?)
- 2003-2008 employment growth rate greater than 8% (overall county job growth over the period) (Did the sector add jobs at an above-average rate?)
- Location quotient of at least 1.25 (Does the sector have a significant concentration in the county?)
- Competitive effect greater than 0 (Did the sector add jobs beyond national growth overall and in the sector?)
- Average annual wage greater than \$32,163 (2008 average for the county) (Does the sector pay wages greater than average for the county?)
- Average or above average projected growth (Is the sector expected to add jobs?)

## Industries of Note

Based on these criteria, real estate is a “six star” sector in Beaufort County.

Industry sectors that generate wealth from outside the area are referred to as the region’s base economy. Base economy sectors are important to an area’s economic well-being. Real estate fits the base economy criteria for Beaufort County to the extent it involves people moving in from outside the area.

“Five star” sectors for Beaufort County are:

- Food and beverage stores (below-average wages)
- Clothing and clothing accessories stores (below-average wages)
- Miscellaneous store retailers (below-average wages)
- Credit intermediation and related activities (location quotient below 1.25)
- Management of companies and enterprises (location quotient below 1.25)
- Amusement, gambling and recreation industries (below-average wages)
- Food services and drinking places (below-average wages)

Company management fits the base economy criteria. The other sectors may partially fit the base economy criteria to the extent they involve spending by non-residents.

Other sectors which fit this base economy criteria, have above-average wages, have a relatively high concentration in the area (as indicated by the location quotient), and are projected to grow are specialty trade contractors and construction of buildings.

**Appendix C** has information on all factors for all sectors for Beaufort County.

---

<sup>1</sup> *Competitive Effect: based on shift-share analysis; represents the change in employment in the sector in the county after accounting for overall US employment growth and growth/decline in the sector in the US.*

<sup>2</sup> *Location Quotient: percentage of employment in the sector in the county divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in the county compared to the US; based on 2008 data.*

## MOVING FORWARD

The South Carolina Department of Commerce appreciates the opportunity to provide this base analysis of Beaufort County's labor market. We hope that it will help in advancing the progress of Beaufort County's economic development.

### What's been done so far?

This analysis identifies the region's assets—both current and future—at a macro level. Labor Market Information (LMI) at the S.C. Department of Commerce developed a Base Labor Analysis report providing an overview of the region's population, industries, occupations, and educational assets. Additionally, these findings were benchmarked against the state and the nation.

### What's next?

Because local knowledge is required to interpret and apply the findings appropriately, the Beaufort Base Labor Analysis should be used with local stakeholders to identify and define key, targeted industry clusters. Some items to consider when defining these clusters may include the following.

#### 1. *What is Beaufort's economic base?*

In order for an economy to grow, it must have a base (export) sector that generates wealth from beyond its borders. Industries in the economic base (manufacturing, scientific and technology services, warehouse and distribution, financial services, regional healthcare, etc.) typically provide occupations with higher pay and benefits as well as better human capital development and promotion opportunities. A successful economic base stimulates the development of the non-base sector (housing, schools, retail, restaurants, personal services, etc.). It also propels the local tax base which, in turn, provides support to community services.

#### 2. *What are strategies to assist low-wage citizens in non-base economy jobs?*

Although the economic base is the driver for long-term growth in a region, implementable strategies for developing job opportunities for low-skilled individuals is a priority for community economic well-being. This need must also be kept in mind when defining target industry clusters.

#### 3. *What other factors are vital to Beaufort and its community?*

Over and above pure economic considerations, what is important to the citizens of the Beaufort community? How does Beaufort want to be perceived? What quality of life issues affect Beaufort? These questions may impact the types of industries desired for the area.

## How Labor Market Information at the S.C. Department of Commerce can help.

Once local stakeholders have identified key industry clusters vital to the future economic development of the region, LMI can provide more in-depth analysis of each of these industries, their occupations, business establishments, and educational requirements.

### **1. Detailed Industry Analysis**

For each identified industry, LMI can develop a detailed analysis of each sector, including employment, projected growth, staffing patterns, location quotients, and employers. Additionally, the analysis will examine the largest, fastest growing, and declining sectors within the industry cluster.

### **2. Detailed Occupational Analysis**

At this point, the occupations—classified by SOC codes—that make up each of the identified industry clusters can be analyzed in detail. This analysis will include employment, average earnings, educational requirements, projected growth, and completers from available local training programs. It will culminate in identifying gaps between the number of occupations required to sustain and advance industry growth and the number of skilled workers (as identified by educational requirements and program completers) available to fulfill these positions.

### **3. Identification of Implementable Recommendations**

LMI will utilize the findings of the analyses to develop a set of implementable recommendations. These may include recommendations to align community college programs with economic development goals along with others. Finally, local knowledge will once again be called upon to review the findings and develop an action plan for the implementation of feasible solutions.

## Appendix A: Occupational Projections for Beaufort County

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
11-1011	Chief executives	685	816	131	19	1.08	29.27	Degree plus work experience
11-1021	General and operations managers	1,053	1,119	66	6	1.06	33.05	Degree plus work experience
11-1031	Legislators	46	48	2	4	1.30	10.75	Degree plus work experience
11-2011	Advertising and promotions managers	69	76	7	10	2.40	26.88	Degree plus work experience
11-2021	Marketing managers	84	100	16	19	0.71	23.90	Degree plus work experience
11-2022	Sales managers	220	255	35	16	1.06	40.41	Degree plus work experience
11-2031	Public relations managers	37	42	5	14	1.07	29.64	Degree plus work experience
11-3011	Administrative services managers	180	198	18	10	1.25	30.12	Degree plus work experience
11-3021	Computer and information systems managers	62	75	13	21	0.37	35.16	Degree plus work experience
11-3031	Financial managers	314	361	47	15	0.86	27.34	Degree plus work experience

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
11-3041	Compensation and benefits managers	14	16	2	14	0.55	24.66	Degree plus work experience
11-3042	Training and development managers	14	16	2	14	0.68	25.84	Degree plus work experience
11-3049	Human resources managers, all other	17	19	2	12	0.45	26.63	Degree plus work experience
11-3051	Industrial production managers	15	16	1	7	0.18	30.36	Work experience in a related field
11-3061	Purchasing managers	12	13	1	8	0.33	29.07	Degree plus work experience
11-3071	Transportation, storage, and distribution managers	27	32	5	19	0.47	26.88	Work experience in a related field
11-9011	Farm, ranch, and other agricultural managers	30	33	3	10	0.10	16.43	Degree plus work experience
11-9012	Farmers and ranchers	96	99	3	3	0.10	6.56	Long-term on-the-job training
11-9021	Construction managers	404	459	55	14	1.01	19.20	Bachelor's degree
11-9031	Education administrators, preschool and child care center/program	27	30	3	11	0.49	20.01	Degree plus work experience
11-9032	Education administrators, elementary and secondary school	98	106	8	8	0.67	47.38	Degree plus work experience



SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
11-9033	Education administrators, postsecondary	19	23	4	21	0.24	22.38	Degree plus work experience
11-9039	Education administrators, all other	33	34	1	3	0.92	21.02	Degree plus work experience
11-9041	Engineering managers	67	74	7	10	0.66	36.70	Degree plus work experience
11-9051	Food service managers	333	363	30	9	1.31	17.17	Work experience in a related field
11-9081	Lodging managers	133	157	24	18	1.67	29.70	Work experience in a related field
11-9111	Medical and health services managers	149	168	19	13	0.82	37.86	Degree plus work experience
11-9131	Postmasters and mail superintendents	21	21	0	0	1.50	30.60	Work experience in a related field
11-9141	Property, real estate, and community association managers	1,253	1,791	538	43	1.87	9.06	Bachelor's degree
11-9151	Social and community service managers	72	79	7	10	0.79	19.72	Bachelor's degree
11-9199	Managers, all other	672	810	138	21	0.74	12.63	Work experience in a related field
13-1011	Agents and business managers of artists, performers, and athletes	20	25	5	25	0.72	6.61	Degree plus work experience
13-1022	Wholesale and retail buyers, except farm products	44	50	6	14	0.48	26.03	Work experience in a related field

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
13-1023	Purchasing agents, except wholesale, retail, and farm products	94	95	1	1	0.57	20.59	Work experience in a related field
13-1031	Claims adjusters, examiners, and investigators	35	36	1	3	0.20	27.02	Long-term on-the-job training
13-1032	Insurance appraisers, auto damage	11	13	2	18	0.53	19.07	Long-term on-the-job training
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation	69	67	-2	-3	0.50	15.26	Long-term on-the-job training
13-1051	Cost estimators	67	75	8	12	0.53	22.55	Work experience in a related field
13-1071	Employment, recruitment, and placement specialists	61	78	17	28	0.51	18.64	Bachelor's degree
13-1072	Compensation, benefits, and job analysis specialists	31	37	6	19	0.42	19.82	Bachelor's degree
13-1073	Training and development specialists	59	69	10	17	0.47	26.08	Bachelor's degree
13-1079	Human resources, training, and labor relations specialists, all other	49	57	8	16	0.35	23.26	Bachelor's degree
13-1081	Logisticians	21	22	1	5	0.37	24.82	Bachelor's degree
13-1111	Management analysts	603	686	83	14	1.05	19.75	Degree plus work experience
13-1121	Meeting and convention planners	73	81	8	11	1.67	13.48	Bachelor's degree
13-1199	Business operation specialists, all other	174	199	25	14	0.29	26.53	Bachelor's degree
13-2011	Accountants and auditors	654	771	117	18	0.74	16.85	Bachelor's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
13-2021	Appraisers and assessors of real estate	458	654	196	43	1.91	10.32	Postsecondary vocational award
13-2031	Budget analysts	15	15	0	0	0.39	22.87	Bachelor's degree
13-2041	Credit analysts	17	16	-1	-6	0.42	25.20	Bachelor's degree
13-2051	Financial analysts	118	159	41	35	0.54	10.16	Bachelor's degree
13-2052	Personal financial advisors	457	611	154	34	1.13	11.50	Bachelor's degree
13-2053	Insurance underwriters	11	11	0	0	0.19	24.64	Bachelor's degree
13-2071	Loan counselors	17	18	1	6	0.65	16.65	Bachelor's degree
13-2072	Loan officers	133	136	3	2	0.72	28.40	Bachelor's degree
13-2081	Tax examiners, collectors, and revenue agents	25	24	-1	-4	0.67	14.88	Bachelor's degree
13-2082	Tax preparers	140	148	8	6	2.24	8.92	Moderate-term on-the-job training
13-2099	Financial specialists, all other	48	46	-2	-4	0.51	21.12	Bachelor's degree
15-1011	Computer and information scientists, research	15	19	4	27	0.41	19.96	Doctoral degree
15-1021	Computer programmers	99	108	9	9	0.38	17.27	Bachelor's degree
15-1031	Computer software engineers, applications	30	41	11	37	0.10	24.64	Bachelor's degree
15-1032	Computer software engineers, systems software	31	40	9	29	0.13	26.56	Bachelor's degree
15-1041	Computer support specialists	114	135	21	18	0.35	15.36	Associate's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
15-1051	Computer systems analysts	50	65	15	30	0.17	25.08	Bachelor's degree
15-1061	Database administrators	23	29	6	26	0.33	23.87	Bachelor's degree
15-1071	Network and computer systems administrators	69	87	18	26	0.35	23.78	Bachelor's degree
15-1081	Network systems and data communications analysts	73	95	22	30	0.41	20.90	Bachelor's degree
15-1099	Computer specialists, all other	45	54	9	20	0.35	27.69	Associate's degree
15-2031	Operations research analysts	18	21	3	17	0.49	30.19	Master's degree
17-1011	Architects, except landscape and naval	37	40	3	8	0.45	20.96	Bachelor's degree
17-1012	Landscape architects	83	89	6	7	2.49	23.04	Bachelor's degree
17-1022	Surveyors	43	49	6	14	1.31	19.82	Bachelor's degree
17-2051	Civil engineers	80	87	7	9	0.47	27.42	Bachelor's degree
17-2061	Computer hardware engineers	25	30	5	20	0.59	22.91	Bachelor's degree
17-2071	Electrical engineers	47	53	6	13	0.55	33.50	Bachelor's degree
17-2072	Electronics engineers, except computer	26	28	2	8	0.32	26.06	Bachelor's degree
17-2081	Environmental engineers	20	25	5	25	0.66	31.07	Bachelor's degree
17-2111	Health and safety engineers, except mining safety engineers and inspectors	25	27	2	8	1.66	31.04	Bachelor's degree
17-2112	Industrial engineers	21	28	7	33	0.19	31.63	Bachelor's degree
17-2131	Materials engineers	12	13	1	8	0.90	23.01	Bachelor's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
17-2141	Mechanical engineers	33	36	3	9	0.26	29.12	Bachelor's degree
17-2161	Nuclear engineers	31	32	1	3	1.47	24.14	Bachelor's degree
17-2199	Engineers, all other	30	31	1	3	0.29	23.58	Bachelor's degree
17-3011	Architectural and civil drafters	19	20	1	5	0.30	15.53	Postsecondary vocational award
17-3012	Electrical and electronics drafters	12	13	1	8	0.55	20.20	Postsecondary vocational award
17-3013	Mechanical drafters	34	37	3	9	0.79	24.39	Postsecondary vocational award
17-3022	Civil engineering technicians	15	16	1	7	0.30	17.70	Associate's degree
17-3023	Electrical and electronic engineering technicians	24	27	3	13	0.27	18.08	Associate's degree
17-3025	Environmental engineering technicians	13	16	3	23	1.01	19.56	Associate's degree
17-3027	Mechanical engineering technicians	20	23	3	15	0.79	19.99	Associate's degree
17-3029	Engineering technicians, except drafters, all other	15	15	0	0	0.38	19.61	Associate's degree
17-3031	Surveying and mapping technicians	94	105	11	12	2.07	17.60	Moderate-term on-the-job training
19-1032	Foresters	15	16	1	7	1.62	24.58	Bachelor's degree
19-2041	Environmental scientists and specialists, including health	24	31	7	29	0.48	28.15	Master's degree
19-2042	Geoscientists, except hydrologists and geographers	14	17	3	21	0.56	16.31	Master's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
19-3021	Market research analysts	66	79	13	20	0.44	17.64	Bachelor's degree
19-3022	Survey researchers	27	30	3	11	0.83	13.73	Bachelor's degree
19-3031	Clinical, counseling, and school psychologists	57	63	6	11	0.56	23.27	Doctoral degree
19-3032	Industrial-organizational psychologists	27	32	5	19	0.59	17.50	Master's degree
19-3039	Psychologists, all other	27	32	5	19	0.55	18.46	Master's degree
19-3051	Urban and regional planners	20	23	3	15	0.94	28.20	Master's degree
19-3099	Social scientists and related workers, all other	29	27	-2	-7	1.70	27.90	Master's degree
19-4051	Nuclear technicians	11	11	0	0	2.04	19.84	Associate's degree
19-4091	Environmental science and protection technicians, including health	24	33	9	38	1.19	23.31	Associate's degree
19-4093	Forest and conservation technicians	29	27	-2	-7	1.53	14.20	Associate's degree
21-1011	Substance abuse and behavioral disorder counselors	13	14	1	8	0.22	15.72	Master's degree
21-1012	Educational, vocational, and school counselors	119	130	11	9	0.76	23.84	Master's degree
21-1014	Mental health counselors	19	21	2	11	0.26	12.87	Master's degree
21-1015	Rehabilitation counselors	21	23	2	10	0.27	13.29	Master's degree
21-1021	Child, family, and school social workers	88	93	5	6	0.50	15.47	Bachelor's degree
21-1022	Medical and public health social workers	71	82	11	15	0.84	18.52	Bachelor's degree
21-1023	Mental health and substance abuse social workers	20	22	2	10	0.23	10.76	Master's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
21-1029	Social workers, all other	33	34	1	3	0.68	18.00	Bachelor's degree
21-1091	Health educators	11	12	1	9	0.27	18.58	Master's degree
21-1092	Probation officers and correctional treatment specialists	14	15	1	7	0.25	18.41	Bachelor's degree
21-1093	Social and human service assistants	51	57	6	12	0.24	12.03	Moderate-term on-the-job training
21-1099	Community and social service specialists, all other	16	18	2	13	0.22	11.66	Bachelor's degree
21-2011	Clergy	105	114	9	9	0.69	8.85	Master's degree
21-2021	Directors, religious activities and education	49	54	5	10	0.69	9.51	Bachelor's degree
21-2099	Religious workers, all other	23	26	3	13	0.68	8.32	Bachelor's degree
23-1011	Lawyers	402	463	61	15	0.84	28.40	First professional degree
23-1023	Judges, magistrate judges, and magistrates	24	26	2	8	1.70	22.81	Degree plus work experience
23-2011	Paralegals and legal assistants	249	315	66	27	1.69	20.31	Associate's degree
23-2091	Court reporters	21	26	5	24	0.85	16.25	Postsecondary vocational award
23-2092	Law clerks	37	44	7	19	1.18	14.21	Bachelor's degree
23-2093	Title examiners, abstractors, and searchers	77	88	11	14	1.65	17.09	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
23-2099	Legal support workers, all other	28	32	4	14	0.76	14.55	Bachelor's degree
25-1099	Postsecondary teachers	120	157	37	31	0.12	26.94	Doctoral degree
25-2011	Preschool teachers, except special education	168	185	17	10	0.53	13.38	Postsecondary vocational award
25-2012	Kindergarten teachers, except special education	128	144	16	13	1.09	32.29	Bachelor's degree
25-2021	Elementary school teachers, except special education	631	704	73	12	0.68	29.89	Bachelor's degree
25-2022	Middle school teachers, except special and vocational education	367	404	37	10	0.92	30.58	Bachelor's degree
25-2023	Vocational education teachers, middle school	13	15	2	15	0.50	14.48	Degree plus work experience
25-2031	Secondary school teachers, except special and vocational education	422	448	26	6	0.67	29.56	Bachelor's degree
25-2032	Vocational education teachers, secondary school	44	44	0	0	0.71	37.60	Degree plus work experience
25-2041	Special education teachers, preschool, kindergarten, and elementary school	93	107	14	15	0.69	30.27	Bachelor's degree
25-2042	Special education teachers, middle school	31	36	5	16	0.52	33.64	Bachelor's degree
25-2043	Special education teachers, secondary school	28	30	2	7	0.32	37.85	Bachelor's degree
25-3011	Adult literacy, remedial education, and GED teachers and instructors	44	51	7	16	0.49	11.49	Bachelor's degree
25-3021	Self-enrichment education teachers	98	112	14	14	0.59	11.41	Work experience in a related field
25-3099	Teachers and instructors, all other	99	111	12	12	0.26	26.01	Bachelor's degree



SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
25-4012	Curators	12	13	1	8	1.59	10.09	Master's degree
25-4021	Librarians	62	65	3	5	0.65	25.05	Master's degree
25-4031	Library technicians	51	55	4	8	0.74	11.73	Postsecondary vocational award
25-9031	Instructional coordinators	63	72	9	14	0.81	27.08	Master's degree
25-9041	Teacher assistants	416	449	33	8	0.51	11.29	Short-term on-the-job training
25-9099	Education, training, and library workers, all other	23	24	1	4	0.35	11.23	Bachelor's degree
27-1011	Art directors	59	71	12	20	0.82	8.44	Degree plus work experience
27-1012	Craft artists	50	61	11	22	0.92	6.71	Long-term on-the-job training
27-1013	Fine artists, including painters, sculptors, and illustrators	54	66	12	22	0.96	7.42	Long-term on-the-job training
27-1014	Multi-media artists and animators	59	75	16	27	0.85	8.37	Bachelor's degree
27-1019	Artists and related workers, all other	50	60	10	20	0.89	6.82	Long-term on-the-job training
27-1021	Commercial and industrial designers	35	43	8	23	0.85	14.07	Bachelor's degree
27-1022	Fashion designers	28	33	5	18	0.83	11.54	Associate's degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
27-1023	Floral designers	84	96	12	14	1.57	14.53	Moderate-term on-the-job training
27-1024	Graphic designers	206	256	50	24	1.42	16.46	Bachelor's degree
27-1025	Interior designers	93	121	28	30	1.76	19.73	Associate's degree
27-1026	Merchandise displayers and window trimmers	37	45	8	22	0.64	13.54	Moderate-term on-the-job training
27-1027	Set and exhibit designers	35	42	7	20	1.22	10.45	Bachelor's degree
27-1029	Designers, all other	28	34	6	21	0.91	11.46	Bachelor's degree
27-2011	Actors	34	42	8	24	0.64	8.30	Long-term on-the-job training
27-2012	Producers and directors	36	41	5	14	0.49	14.71	Degree plus work experience
27-2021	Athletes and sports competitors	24	29	5	21	0.92	10.82	Long-term on-the-job training
27-2022	Coaches and scouts	194	214	20	10	1.59	19.06	Long-term on-the-job training
27-2023	Umpires, referees, and other sports officials	25	30	5	20	1.01	7.34	Long-term on-the-job training
27-2031	Dancers	13	15	2	15	1.10	9.66	Long-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
27-2032	Choreographers	13	14	1	8	0.99	12.31	Work experience in a related field
27-2041	Music directors and composers	86	103	17	20	0.86	6.60	Degree plus work experience
27-2042	Musicians and singers	145	172	27	19	1.03	7.00	Long-term on-the-job training
27-2099	Entertainers and performers, sports and related workers, all other	44	50	6	14	0.75	6.93	Long-term on-the-job training
27-3011	Radio and television announcers	24	24	0	0	0.86	12.98	Long-term on-the-job training
27-3012	Public address system and other announcers	10	13	3	30	0.77	8.34	Long-term on-the-job training
27-3031	Public relations specialists	146	163	17	12	0.88	17.22	Bachelor's degree
27-3041	Editors	77	85	8	10	0.88	16.05	Bachelor's degree
27-3042	Technical writers	20	25	5	25	0.61	17.64	Bachelor's degree
27-3043	Writers and authors	229	271	42	18	1.15	10.20	Bachelor's degree
27-3091	Interpreters and translators	74	88	14	19	0.93	14.15	Long-term on-the-job training
27-3099	Media and communication workers, all other	73	87	14	19	1.02	14.01	Long-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
27-4011	Audio and video equipment technicians	16	19	3	19	0.55	12.15	Long-term on-the-job training
27-4021	Photographers	483	586	103	21	1.18	11.96	Long-term on-the-job training
27-4032	Film and video editors	13	15	2	15	0.79	12.36	Bachelor's degree
27-4099	Media and communication equipment workers, all other	12	12	0	0	0.85	14.87	Moderate-term on-the-job training
29-1011	Chiropractors	37	46	9	24	1.07	23.80	First professional degree
29-1021	Dentists, general	40	44	4	10	0.73	64.75	First professional degree
29-1031	Dietitians and nutritionists	39	42	3	8	0.95	23.49	Bachelor's degree
29-1041	Optometrists	24	28	4	17	0.84	31.65	First professional degree
29-1051	Pharmacists	103	139	36	35	0.67	50.18	First professional degree
29-1069	Physicians and surgeons	308	333	25	8	0.64	76.73	First professional degree
29-1071	Physician assistants	18	21	3	17	0.42	28.90	Bachelor's degree
29-1081	Podiatrists	11	13	2	18	0.55	21.02	First professional degree

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
29-1111	Registered nurses	970	1,118	148	15	0.66	27.14	Associate's degree
29-1122	Occupational therapists	39	49	10	26	0.63	30.61	Master's degree
29-1123	Physical therapists	128	172	44	34	1.11	36.11	Master's degree
29-1126	Respiratory therapists	23	26	3	13	0.38	21.64	Associate's degree
29-1127	Speech-language pathologists	59	67	8	14	0.73	27.36	Master's degree
29-1129	Therapists, all other	17	20	3	18	0.49	15.75	Bachelor's degree
29-1131	Veterinarians	31	44	13	42	0.75	29.92	First professional degree
29-1199	Health diagnosing and treating practitioners, all other	22	24	2	9	0.47	22.43	Bachelor's degree
29-2011	Medical and clinical laboratory technologists	42	46	4	10	0.44	28.42	Bachelor's degree
29-2012	Medical and clinical laboratory technicians	44	49	5	11	0.50	19.08	Associate's degree
29-2021	Dental hygienists	127	159	32	25	1.26	35.10	Associate's degree
29-2031	Cardiovascular technologists and technicians	16	19	3	19	0.57	18.00	Associate's degree
29-2032	Diagnostic medical sonographers	10	12	2	20	0.35	26.04	Associate's degree
29-2034	Radiologic technologists and technicians	77	85	8	10	0.65	27.90	Associate's degree
29-2041	Emergency medical technicians and paramedics	63	75	12	19	0.53	21.89	Postsecondary vocational award

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
29-2051	Dietetic technicians	29	36	7	24	1.95	8.33	Moderate-term on-the-job training
29-2052	Pharmacy technicians	169	204	35	21	0.90	12.58	Moderate-term on-the-job training
29-2054	Respiratory therapy technicians	16	16	0	0	1.64	19.59	Associate's degree
29-2055	Surgical technologists	51	59	8	16	1.00	17.20	Postsecondary vocational award
29-2056	Veterinary technologists and technicians	40	59	19	48	0.86	18.77	Associate's degree
29-2061	Licensed practical and licensed vocational nurses	359	427	68	19	0.86	17.59	Postsecondary vocational award
29-2071	Medical records and health information technicians	142	157	15	11	1.47	17.59	Associate's degree
29-2081	Opticians, dispensing	36	44	8	22	0.88	13.59	Long-term on-the-job training
29-2091	Orthotists and prosthetists	13	14	1	8	1.41	22.55	Bachelor's degree
29-2099	Healthcare technologists and technicians, all other	12	13	1	8	0.26	12.98	Postsecondary vocational award
29-9011	Occupational health and safety specialists	42	44	2	5	1.34	24.68	Bachelor's degree
31-1011	Home health aides	416	541	125	30	0.73	11.53	Short-term on-the-job training
31-1012	Nursing aides, orderlies, and attendants	726	915	189	26	0.85	10.15	Postsecondary vocational award

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
31-1013	Psychiatric aides	32	38	6	19	0.42	8.39	Short-term on-the-job training
31-2011	Occupational therapist assistants	11	16	5	45	0.73	23.15	Associate's degree
31-2021	Physical therapist assistants	54	80	26	48	1.51	24.98	Associate's degree
31-2022	Physical therapist aides	32	47	15	47	1.21	11.36	Short-term on-the-job training
31-9011	Massage therapists	56	57	1	2	0.98	9.95	Postsecondary vocational award
31-9091	Dental assistants	132	163	31	23	0.78	17.52	Moderate-term on-the-job training
31-9092	Medical assistants	199	251	52	26	0.71	12.52	Moderate-term on-the-job training
31-9093	Medical equipment preparers	24	28	4	17	0.74	12.60	Short-term on-the-job training
31-9094	Medical transcriptionists	36	40	4	11	0.65	13.61	Postsecondary vocational award
31-9095	Pharmacy aides	28	33	5	18	0.77	8.31	Short-term on-the-job training
31-9096	Veterinary assistants and laboratory animal caretakers	27	36	9	33	0.58	10.30	Short-term on-the-job training
31-9099	Healthcare support workers, all other	45	52	7	16	0.40	17.33	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
33-1011	First-line supervisors/managers of correctional officers	20	23	3	15	0.83	27.02	Work experience in a related field
33-1012	First-line supervisors/managers of police and detectives	51	54	3	6	1.01	29.23	Work experience in a related field
33-1021	First-line supervisors/managers of fire fighting and prevention workers	26	29	3	12	0.83	34.61	Work experience in a related field
33-1099	First-line supervisors/managers, protective service workers, all other	73	73	0	0	2.22	24.62	Work experience in a related field
33-2011	Fire fighters	217	239	22	10	1.31	18.36	Long-term on-the-job training
33-3011	Bailiffs	13	14	1	8	1.07	12.71	Moderate-term on-the-job training
33-3012	Correctional officers and jailers	248	282	34	14	1.09	17.21	Moderate-term on-the-job training
33-3021	Detectives and criminal investigators	29	31	2	7	0.48	18.38	Work experience in a related field
33-3051	Police and sheriff's patrol officers	197	218	21	11	0.55	19.62	Long-term on-the-job training
33-9011	Animal control workers	12	13	1	8	1.19	13.81	Moderate-term on-the-job training
33-9021	Private detectives and investigators	21	25	4	19	0.54	11.97	Work experience in a related field



SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
33-9031	Gaming surveillance officers and gaming investigators	11	15	4	36	0.53	7.08	Moderate-term on-the-job training
33-9032	Security guards	462	448	-14	-3	0.77	12.48	Short-term on-the-job training
33-9091	Crossing guards	14	15	1	7	0.37	9.99	Short-term on-the-job training
33-9092	Lifeguards, ski patrol, and other recreational protective service workers	66	68	2	3	0.96	8.44	Short-term on-the-job training
33-9099	Protective service workers, all other	28	30	2	7	0.52	11.36	Short-term on-the-job training
35-1011	Chefs and head cooks	241	246	5	2	3.52	15.83	Work experience in a related field
35-1012	First-line supervisors/managers of food preparation and serving workers	695	745	50	7	1.39	13.59	Work experience in a related field
35-2011	Cooks, fast food	579	616	37	6	1.82	7.89	Short-term on-the-job training
35-2012	Cooks, institution and cafeteria	240	286	46	19	1.05	8.18	Moderate-term on-the-job training
35-2014	Cooks, restaurant	1,006	1,021	15	1	1.97	12.57	Long-term on-the-job training
35-2015	Cooks, short order	240	242	2	1	2.36	9.34	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
35-2019	Cooks, all other	15	17	2	13	0.80	9.76	Moderate-term on-the-job training
35-2021	Food preparation workers	780	881	101	13	1.53	9.43	Short-term on-the-job training
35-3011	Bartenders	417	428	11	3	1.41	9.14	Short-term on-the-job training
35-3021	Combined food preparation and serving workers, including fast food	1,095	1,249	154	14	0.72	7.85	Short-term on-the-job training
35-3022	Counter attendants, cafeteria, food concession, and coffee shop	771	863	92	12	2.62	7.18	Short-term on-the-job training
35-3031	Waiters and waitresses	2,715	2,753	38	1	2.03	7.86	Short-term on-the-job training
35-3041	Food servers, nonrestaurant	181	203	22	12	1.72	10.41	Short-term on-the-job training
35-9011	Dining room and cafeteria attendants and bartender helpers	640	661	21	3	2.72	8.65	Short-term on-the-job training
35-9021	Dishwashers	651	667	16	2	2.20	8.32	Short-term on-the-job training
35-9031	Hosts and hostesses, restaurant, lounge, and coffee shop	526	530	4	1	2.65	8.93	Short-term on-the-job training
35-9099	Food preparation and serving related workers, all other	10	11	1	10	0.34	7.59	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
37-1011	First-line supervisors/managers of housekeeping and janitorial workers	357	424	67	19	1.61	12.54	Work experience in a related field
37-1012	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	374	429	55	15	4.51	18.17	Work experience in a related field
37-2011	Janitors and cleaners, except maids and housekeeping cleaners	1,248	1,455	207	17	0.98	9.31	Short-term on-the-job training
37-2012	Maids and housekeeping cleaners	2,480	2,628	148	6	2.09	8.78	Short-term on-the-job training
37-2019	Building cleaning workers, all other	325	439	114	35	1.04	7.48	Short-term on-the-job training
37-2021	Pest control workers	161	199	38	24	3.06	10.99	Moderate-term on-the-job training
37-3011	Landscaping and groundskeeping workers	2,276	2,634	358	16	3.94	12.42	Short-term on-the-job training
37-3012	Pesticide handlers, sprayers, and applicators, vegetation	50	67	17	34	0.82	7.81	Moderate-term on-the-job training
37-3013	Tree trimmers and pruners	46	62	16	35	0.70	7.30	Short-term on-the-job training
37-3019	Grounds maintenance workers, all other	47	63	16	34	0.84	7.02	Short-term on-the-job training
39-1011	Gaming supervisors	19	23	4	21	0.65	8.12	Work experience in a related field

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
39-1012	Slot key persons	16	20	4	25	0.67	6.55	Postsecondary vocational award
39-1021	First-line supervisors/managers of personal service workers	230	243	13	6	1.73	11.79	Work experience in a related field
39-2011	Animal trainers	32	31	-1	-3	0.60	7.10	Moderate-term on-the-job training
39-2021	Nonfarm animal caretakers	277	271	-6	-2	1.35	8.22	Short-term on-the-job training
39-3012	Gaming and sports book writers and runners	28	30	2	7	1.59	8.00	Short-term on-the-job training
39-3021	Motion picture projectionists	11	13	2	18	1.69	9.79	Short-term on-the-job training
39-3031	Ushers, lobby attendants, and ticket takers	92	107	15	16	1.58	6.55	Short-term on-the-job training
39-3091	Amusement and recreation attendants	551	572	21	4	3.83	7.92	Short-term on-the-job training
39-3093	Locker room, coatroom, and dressing room attendants	14	15	1	7	1.10	7.05	Short-term on-the-job training
39-3099	Entertainment attendants and related workers, all other	27	28	1	4	0.91	8.23	Moderate-term on-the-job training
39-4021	Funeral attendants	20	25	5	25	1.04	14.56	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
39-5011	Barbers	16	10	-6	-38	0.59	7.42	Postsecondary vocational award
39-5012	Hairdressers, hairstylists, and cosmetologists	253	221	-32	-13	0.81	13.34	Postsecondary vocational award
39-5092	Manicurists and pedicurists	40	40	0	0	1.07	11.82	Postsecondary vocational award
39-5094	Skin care specialists	22	23	1	5	0.95	13.68	Postsecondary vocational award
39-6011	Baggage porters and bellhops	31	29	-2	-6	1.08	9.12	Short-term on-the-job training
39-6012	Concierges	11	11	0	0	0.88	11.00	Moderate-term on-the-job training
39-6021	Tour guides and escorts	35	37	2	6	1.45	7.80	Moderate-term on-the-job training
39-6022	Travel guides	11	14	3	27	0.74	8.47	Moderate-term on-the-job training
39-6031	Flight attendants	15	18	3	20	0.29	22.44	Long-term on-the-job training
39-9011	Child care workers	539	599	60	11	0.50	7.53	Short-term on-the-job training
39-9021	Personal and home care aides	207	245	38	18	0.40	9.16	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
39-9031	Fitness trainers and aerobics instructors	197	208	11	6	1.25	12.25	Postsecondary vocational award
39-9032	Recreation workers	200	219	19	10	1.01	9.03	Short-term on-the-job training
39-9041	Residential advisors	10	11	1	10	0.31	10.30	Moderate-term on-the-job training
39-9099	Personal care and service workers, all other	57	44	-13	-23	0.79	8.02	Short-term on-the-job training
41-1011	First-line supervisors/managers of retail sales workers	1,371	1,561	190	14	1.10	14.77	Work experience in a related field
41-1012	First-line supervisors/managers of non-retail sales workers	418	506	88	21	0.82	17.18	Work experience in a related field
41-2011	Cashiers, except gaming	2,432	2,611	179	7	1.23	8.71	Short-term on-the-job training
41-2012	Gaming change persons and booth cashiers	20	24	4	20	0.57	13.64	Short-term on-the-job training
41-2021	Counter and rental clerks	259	299	40	15	1.02	10.68	Short-term on-the-job training
41-2022	Parts salespersons	72	76	4	6	0.60	15.69	Moderate-term on-the-job training
41-2031	Retail salespersons	3,400	3,958	558	16	1.23	10.05	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
41-3011	Advertising sales agents	187	234	47	25	1.53	19.69	Moderate-term on-the-job training
41-3021	Insurance sales agents	344	383	39	11	0.86	16.80	Bachelor's degree
41-3031	Securities, commodities, and financial services sales agents	347	432	85	24	0.98	12.51	Bachelor's degree
41-3041	Travel agents	58	69	11	19	0.92	7.54	Postsecondary vocational award
41-3099	Sales representatives, services, all other	257	319	62	24	0.60	16.43	Moderate-term on-the-job training
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products	103	125	22	21	0.35	29.79	Moderate-term on-the-job training
41-4012	Sales representatives, wholesale and manufacturing, except technical and scientific products	340	420	80	24	0.39	21.09	Moderate-term on-the-job training
41-9011	Demonstrators and product promoters	47	57	10	21	0.68	9.64	Moderate-term on-the-job training
41-9012	Models	18	21	3	17	0.75	6.56	Moderate-term on-the-job training
41-9021	Real estate brokers	2,153	3,081	928	43	2.13	8.66	Work experience in a related field
41-9022	Real estate sales agents	2,507	3,485	978	39	2.34	10.16	Postsecondary vocational award
41-9041	Telemarketers	177	187	10	6	0.93	9.95	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
41-9091	Door-to-door sales workers, news and street vendors, and related workers	392	495	103	26	0.70	6.56	Short-term on-the-job training
41-9099	Sales and related workers, all other	137	166	29	21	0.78	7.51	Moderate-term on-the-job training
43-1011	First-line supervisors/managers of office and administrative support workers	787	861	74	9	0.90	19.08	Work experience in a related field
43-2011	Switchboard operators, including answering service	90	85	-5	-6	1.04	11.32	Short-term on-the-job training
43-3011	Bill and account collectors	117	137	20	17	0.51	12.32	Short-term on-the-job training
43-3021	Billing and posting clerks and machine operators	280	300	20	7	0.95	13.67	Moderate-term on-the-job training
43-3031	Bookkeeping, accounting, and auditing clerks	992	1,138	146	15	0.80	13.50	Moderate-term on-the-job training
43-3051	Payroll and timekeeping clerks	135	140	5	4	1.20	12.68	Moderate-term on-the-job training
43-3061	Procurement clerks	29	28	-1	-3	0.66	12.98	Short-term on-the-job training
43-3071	Tellers	461	561	100	22	1.31	13.21	Short-term on-the-job training
43-4011	Brokerage clerks	25	26	1	4	0.67	10.68	Moderate-term on-the-job training



SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
43-4031	Court, municipal, and license clerks	40	45	5	13	0.62	15.39	Short-term on-the-job training
43-4041	Credit authorizers, checkers, and clerks	13	11	-2	-15	0.35	15.38	Short-term on-the-job training
43-4051	Customer service representatives	893	1,102	209	23	0.69	15.01	Moderate-term on-the-job training
43-4071	File clerks	58	50	-8	-14	0.48	12.25	Short-term on-the-job training
43-4081	Hotel, motel, and resort desk clerks	397	374	-23	-6	3.16	10.38	Short-term on-the-job training
43-4111	Interviewers, except eligibility and loan	110	128	18	16	0.76	12.67	Short-term on-the-job training
43-4121	Library assistants, clerical	20	22	2	10	0.29	11.22	Short-term on-the-job training
43-4131	Loan interviewers and clerks	28	30	2	7	0.23	15.43	Short-term on-the-job training
43-4141	New accounts clerks	54	53	-1	-2	1.14	16.92	Work experience in a related field
43-4151	Order clerks	55	49	-6	-11	0.42	13.88	Short-term on-the-job training
43-4161	Human resources assistants, except payroll and timekeeping	84	90	6	7	0.89	15.15	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
43-4171	Receptionists and information clerks	748	865	117	16	1.15	11.60	Short-term on-the-job training
43-4181	Reservation and transportation ticket agents and travel clerks	54	42	-12	-22	0.58	11.39	Short-term on-the-job training
43-4199	Information and record clerks, all other	17	14	-3	-18	0.14	15.32	Short-term on-the-job training
43-5021	Couriers and messengers	85	88	3	4	0.54	9.57	Short-term on-the-job training
43-5031	Police, fire, and ambulance dispatchers	53	60	7	13	0.96	15.84	Moderate-term on-the-job training
43-5032	Dispatchers, except police, fire, and ambulance	47	48	1	2	0.44	17.04	Moderate-term on-the-job training
43-5041	Meter readers, utilities	29	29	0	0	1.11	16.32	Short-term on-the-job training
43-5051	Postal service clerks	43	44	1	2	1.01	28.09	Short-term on-the-job training
43-5052	Postal service mail carriers	133	135	2	2	0.70	23.83	Short-term on-the-job training
43-5053	Postal service mail sorters, processors, and processing machine operators	13	12	-1	-8	0.13	17.24	Short-term on-the-job training
43-5061	Production, planning, and expediting clerks	50	57	7	14	0.32	16.85	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
43-5071	Shipping, receiving, and traffic clerks	179	202	23	13	0.43	12.69	Short-term on-the-job training
43-5081	Stock clerks and order fillers	719	749	30	4	0.69	9.76	Short-term on-the-job training
43-5111	Weighers, measurers, checkers, and samplers, recordkeeping	20	20	0	0	0.49	10.30	Short-term on-the-job training
43-6011	Executive secretaries and administrative assistants	571	658	87	15	0.61	16.20	Moderate-term on-the-job training
43-6012	Legal secretaries	167	210	43	26	0.83	12.74	Postsecondary vocational award
43-6013	Medical secretaries	320	376	56	18	1.01	13.15	Postsecondary vocational award
43-6014	Secretaries, except legal, medical, and executive	1,133	1,191	58	5	0.96	13.51	Moderate-term on-the-job training
43-9021	Data entry keyers	68	73	5	7	0.40	10.57	Moderate-term on-the-job training
43-9022	Word processors and typists	58	69	11	19	0.58	7.81	Moderate-term on-the-job training
43-9031	Desktop publishers	21	28	7	33	0.64	8.29	Postsecondary vocational award
43-9041	Insurance claims and policy processing clerks	38	38	0	0	0.27	18.08	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
43-9051	Mail clerks and mail machine operators, except postal service	43	41	-2	-5	0.52	11.95	Short-term on-the-job training
43-9061	Office clerks, general	1,567	1,794	227	14	0.91	10.91	Short-term on-the-job training
43-9199	Office and administrative support workers, all other	38	44	6	16	0.23	10.50	Short-term on-the-job training
45-2041	Graders and sorters, agricultural products	12	13	1	8	0.40	9.31	Work experience in a related field
45-2092	Farmworkers and laborers, crop, nursery, and greenhouse	102	125	23	23	0.26	10.22	Short-term on-the-job training
45-3011	Fishers and related fishing workers	97	83	-14	-14	1.97	7.10	Moderate-term on-the-job training
47-1011	First-line supervisors/managers of construction trades and extraction workers	609	654	45	7	1.09	21.11	Work experience in a related field
47-2011	Boilermakers	25	27	2	8	2.26	21.30	Long-term on-the-job training
47-2021	Brickmasons and blockmasons	140	166	26	19	1.89	18.71	Long-term on-the-job training
47-2022	Stonemasons	23	27	4	17	0.80	16.01	Long-term on-the-job training
47-2031	Carpenters	973	1,047	74	8	1.15	16.36	Long-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
47-2041	Carpet installers	24	28	4	17	0.76	14.71	Moderate-term on-the-job training
47-2042	Floor layers, except carpet, wood, and hard tiles	18	21	3	17	0.82	14.56	Moderate-term on-the-job training
47-2043	Floor sanders and finishers	39	44	5	13	2.02	14.11	Moderate-term on-the-job training
47-2044	Tile and marble setters	56	65	9	16	1.34	15.16	Long-term on-the-job training
47-2051	Cement masons and concrete finishers	81	73	-8	-10	0.73	15.68	Moderate-term on-the-job training
47-2053	Terrazzo workers and finishers	12	12	0	0	1.56	15.20	Long-term on-the-job training
47-2061	Construction laborers	763	785	22	3	1.00	12.90	Moderate-term on-the-job training
47-2071	Paving, surfacing, and tamping equipment operators	17	18	1	6	0.50	13.14	Moderate-term on-the-job training
47-2072	Pile-driver operators	23	26	3	13	1.36	14.81	Moderate-term on-the-job training
47-2073	Operating engineers and other construction equipment operators	193	188	-5	-3	0.83	15.16	Moderate-term on-the-job training
47-2081	Drywall and ceiling tile installers	54	65	11	20	0.64	17.51	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
47-2082	Tapers	25	30	5	20	0.72	15.58	Moderate-term on-the-job training
47-2111	Electricians	382	327	-55	-14	0.97	15.14	Long-term on-the-job training
47-2121	Glaziers	56	72	16	29	1.82	14.00	Long-term on-the-job training
47-2131	Insulation workers, floor, ceiling, and wall	72	87	15	21	4.42	15.29	Moderate-term on-the-job training
47-2132	Insulation workers, mechanical	12	14	2	17	0.67	12.42	Moderate-term on-the-job training
47-2141	Painters, construction and maintenance	448	457	9	2	1.56	14.54	Moderate-term on-the-job training
47-2151	Pipelayers	80	77	-3	-4	1.38	14.08	Moderate-term on-the-job training
47-2152	Plumbers, pipefitters, and steamfitters	212	234	22	10	0.81	17.49	Long-term on-the-job training
47-2161	Plasterers and stucco masons	12	15	3	25	0.45	16.27	Long-term on-the-job training
47-2181	Roofers	60	74	14	23	0.63	14.20	Moderate-term on-the-job training
47-2211	Sheet metal workers	82	90	8	10	0.91	16.68	Long-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
47-2221	Structural iron and steel workers	22	22	0	0	0.58	17.18	Long-term on-the-job training
47-3011	Helpers, brickmasons, blockmasons, stonemasons, and tile and marble setters	33	39	6	18	1.13	10.94	Short-term on-the-job training
47-3012	Helpers, carpenters	172	170	-2	-1	3.98	12.67	Short-term on-the-job training
47-3013	Helpers, electricians	158	113	-45	-28	2.90	11.47	Short-term on-the-job training
47-3014	Helpers, painters, paperhangers, plasterers, and stucco masons	21	20	-1	-5	1.81	10.46	Short-term on-the-job training
47-3015	Helpers, pipelayers, plumbers, pipefitters, and steamfitters	55	59	4	7	1.27	12.87	Short-term on-the-job training
47-3016	Helpers, roofers	22	28	6	27	1.98	9.64	Short-term on-the-job training
47-3019	Helpers, construction trades, all other	15	15	0	0	0.96	9.58	Short-term on-the-job training
47-4011	Construction and building inspectors	76	90	14	18	1.08	20.66	Work experience in a related field
47-4031	Fence erectors	14	15	1	7	0.72	12.57	Moderate-term on-the-job training
47-4041	Hazardous materials removal workers	26	29	3	12	1.07	24.56	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
47-4051	Highway maintenance workers	16	18	2	13	0.20	15.10	Moderate-term on-the-job training
47-4071	Septic tank servicers and sewer pipe cleaners	16	18	2	13	1.00	15.47	Moderate-term on-the-job training
49-1011	First-line supervisors/managers of mechanics, installers, and repairers	295	327	32	11	1.19	23.39	Work experience in a related field
49-2011	Computer, automated teller, and office machine repairers	45	56	11	24	0.49	12.69	Postsecondary vocational award
49-2022	Telecommunications equipment installers and repairers, except line installers	37	44	7	19	0.32	15.36	Long-term on-the-job training
49-2094	Electrical and electronics repairers, commercial and industrial equipment	48	50	2	4	1.15	15.39	Postsecondary vocational award
49-2095	Electrical and electronics repairers, powerhouse, substation, and relay	12	13	1	8	0.88	21.95	Postsecondary vocational award
49-2097	Electronic home entertainment equipment installers and repairers	26	34	8	31	0.82	12.04	Postsecondary vocational award
49-2098	Security and fire alarm systems installers	19	22	3	16	0.49	12.82	Postsecondary vocational award
49-3011	Aircraft mechanics and service technicians	20	21	1	5	0.31	21.34	Postsecondary vocational award
49-3021	Automotive body and related repairers	74	92	18	24	0.74	15.89	Long-term on-the-job training



SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
49-3022	Automotive glass installers and repairers	10	13	3	30	0.80	15.03	Long-term on-the-job training
49-3023	Automotive service technicians and mechanics	361	417	56	16	0.79	16.74	Postsecondary vocational award
49-3031	Bus and truck mechanics and diesel engine specialists	61	72	11	18	0.39	13.53	Postsecondary vocational award
49-3042	Mobile heavy equipment mechanics, except engines	45	49	4	9	0.61	18.74	Postsecondary vocational award
49-3051	Motorboat mechanics	64	77	13	20	3.33	12.85	Long-term on-the-job training
49-3052	Motorcycle mechanics	14	17	3	21	0.79	8.76	Long-term on-the-job training
49-3053	Outdoor power equipment and other small engine mechanics	46	55	9	20	2.12	12.88	Moderate-term on-the-job training
49-3093	Tire repairers and changers	14	17	3	21	0.27	12.32	Short-term on-the-job training
49-9021	Heating, air conditioning, and refrigeration mechanics and installers	279	312	33	12	1.57	17.38	Long-term on-the-job training
49-9031	Home appliance repairers	43	55	12	28	0.95	8.60	Long-term on-the-job training
49-9041	Industrial machinery mechanics	22	27	5	23	0.14	18.02	Long-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
49-9042	Maintenance and repair workers, general	1,090	1,212	122	11	1.42	13.94	Moderate-term on-the-job training
49-9043	Maintenance workers, machinery	12	14	2	17	0.29	14.71	Short-term on-the-job training
49-9051	Electrical power-line installers and repairers	40	42	2	5	0.63	23.06	Long-term on-the-job training
49-9052	Telecommunications line installers and repairers	73	80	7	10	0.72	17.36	Long-term on-the-job training
49-9062	Medical equipment repairers	17	22	5	29	0.71	13.48	Associate's degree
49-9091	Coin, vending, and amusement machine servicers and repairers	20	22	2	10	0.59	10.08	Moderate-term on-the-job training
49-9092	Commercial divers	17	22	5	29	0.92	7.53	Moderate-term on-the-job training
49-9093	Fabric menders, except garment	17	22	5	29	1.00	8.41	Moderate-term on-the-job training
49-9094	Locksmiths and safe repairers	32	42	10	31	1.34	12.21	Moderate-term on-the-job training
49-9097	Signal and track switch repairers	17	22	5	29	0.84	8.23	Moderate-term on-the-job training
49-9098	Helpers--Installation, maintenance, and repair workers	106	120	14	13	1.30	11.54	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
49-9099	Installation, maintenance, and repair workers, all other	25	31	6	24	0.28	11.93	Moderate-term on-the-job training
51-1011	First-line supervisors/managers of production and operating workers	121	133	12	10	0.33	19.31	Work experience in a related field
51-2091	Fiberglass laminators and fabricators	11	14	3	27	0.55	13.02	Moderate-term on-the-job training
51-2092	Team assemblers	95	110	15	16	0.16	12.09	Moderate-term on-the-job training
51-2099	Assemblers and fabricators, all other	12	13	1	8	0.08	13.26	Moderate-term on-the-job training
51-3011	Bakers	27	30	3	11	0.32	10.55	Long-term on-the-job training
51-3021	Butchers and meat cutters	80	88	8	10	1.10	10.84	Long-term on-the-job training
51-3022	Meat, poultry, and fish cutters and trimmers	33	38	5	15	0.37	11.72	Short-term on-the-job training
51-3092	Food batchmakers	22	28	6	27	0.40	11.25	Short-term on-the-job training
51-4011	Computer-controlled machine tool operators, metal and plastic	18	12	-6	-33	0.24	16.02	Moderate-term on-the-job training
51-4031	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	14	12	-2	-14	0.11	14.07	Moderate-term on-the-job training


SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-4041	Machinists	20	21	1	5	0.09	16.86	Long-term on-the-job training
51-4121	Welders, cutters, solderers, and brazers	48	50	2	4	0.22	15.66	Long-term on-the-job training
51-4122	Welding, soldering, and brazing machine setters, operators, and tenders	20	21	1	5	0.48	14.40	Moderate-term on-the-job training
51-5011	Bindery workers	16	15	-1	-6	0.48	10.86	Short-term on-the-job training
51-5021	Job printers	12	14	2	17	0.47	14.01	Long-term on-the-job training
51-5023	Printing machine operators	16	18	2	13	0.15	14.32	Moderate-term on-the-job training
51-6011	Laundry and dry-cleaning workers	259	300	41	16	1.73	9.76	Moderate-term on-the-job training
51-6021	Pressers, textile, garment, and related materials	77	87	10	13	2.06	11.30	Short-term on-the-job training
51-6031	Sewing machine operators	100	91	-9	-9	0.90	11.49	Moderate-term on-the-job training
51-6041	Shoe and leather workers and repairers	14	17	3	21	0.79	7.21	Long-term on-the-job training
51-6051	Sewers, hand	39	50	11	28	0.99	6.78	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-6052	Tailors, dressmakers, and custom sewers	40	52	12	30	0.76	6.93	Long-term on-the-job training
51-6093	Upholsterers	35	45	10	29	0.70	7.56	Long-term on-the-job training
51-7011	Cabinetmakers and bench carpenters	19	18	-1	-5	0.27	14.06	Long-term on-the-job training
51-7021	Furniture finishers	18	22	4	22	0.74	7.68	Long-term on-the-job training
51-7042	Woodworking machine setters, operators, and tenders, except sawing	12	13	1	8	0.27	10.96	Moderate-term on-the-job training
51-8013	Power plant operators	21	25	4	19	0.99	20.48	Long-term on-the-job training
51-8021	Stationary engineers and boiler operators	27	29	2	7	1.17	12.58	Long-term on-the-job training
51-8031	Water and liquid waste treatment plant and system operators	38	43	5	13	0.60	20.50	Long-term on-the-job training
51-9011	Chemical equipment operators and tenders	17	17	0	0	0.56	34.37	Moderate-term on-the-job training
51-9032	Cutting and slicing machine setters, operators, and tenders	11	14	3	27	0.29	9.80	Moderate-term on-the-job training
51-9061	Inspectors, testers, sorters, samplers, and weighers	81	90	9	11	0.32	13.77	Moderate-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
51-9071	Jewelers and precious stone and metal workers	12	14	2	17	0.40	13.89	Postsecondary vocational award
51-9111	Packaging and filling machine operators and tenders	16	18	2	13	0.09	9.96	Short-term on-the-job training
51-9122	Painters, transportation equipment	14	18	4	29	0.49	16.58	Long-term on-the-job training
51-9123	Painting, coating, and decorating workers	11	13	2	18	0.52	11.83	Short-term on-the-job training
51-9131	Photographic process workers	13	12	-1	-8	0.79	10.92	Moderate-term on-the-job training
51-9132	Photographic processing machine operators	25	19	-6	-24	0.80	9.63	Short-term on-the-job training
51-9141	Semiconductor processors	13	16	3	23	0.62	17.97	Associate's degree
51-9195	Molders, shapers, and casters, except metal and plastic	11	12	1	9	0.44	16.23	Moderate-term on-the-job training
51-9198	Helpers--Production workers	73	85	12	16	0.29	9.79	Short-term on-the-job training
51-9199	Production workers, all other	24	29	5	21	0.17	10.85	Moderate-term on-the-job training
53-1021	First-line supervisors/managers of helpers, laborers, and material movers, hand	41	49	8	20	0.39	20.36	Work experience in a related field

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
53-1031	First-line supervisors/managers of transportation and material-moving machine and vehicle operators	75	86	11	15	0.61	18.99	Work experience in a related field
53-3011	Ambulance drivers and attendants, except emergency medical technicians	18	14	-4	-22	1.43	9.48	Moderate-term on-the-job training
53-3021	Bus drivers, transit and intercity	61	55	-6	-10	0.54	7.81	Moderate-term on-the-job training
53-3022	Bus drivers, school	273	267	-6	-2	1.02	9.65	Short-term on-the-job training
53-3031	Driver/sales workers	349	363	14	4	1.06	16.76	Short-term on-the-job training
53-3032	Truck drivers, heavy and tractor-trailer	393	452	59	15	0.38	13.58	Moderate-term on-the-job training
53-3033	Truck drivers, light or delivery services	574	655	81	14	0.92	11.03	Short-term on-the-job training
53-3041	Taxi drivers and chauffeurs	198	194	-4	-2	1.08	7.54	Short-term on-the-job training
53-5021	Captains, mates, and pilots of water vessels	43	49	6	14	2.19	21.24	Work experience in a related field
53-6021	Parking lot attendants	47	51	4	9	0.61	7.55	Short-term on-the-job training
53-6031	Service station attendants	11	15	4	36	0.25	10.34	Short-term on-the-job training

SOC Code	Description	2009 Jobs	2016 Jobs	Change	% Change	Location Quotient	2009 Median Hourly Earnings (\$)	Typical Education & Experience Level
53-7032	Excavating and loading machine and dragline operators	16	16	0	0	0.41	13.14	Moderate-term on-the-job training
53-7051	Industrial truck and tractor operators	102	119	17	17	0.31	12.44	Short-term on-the-job training
53-7061	Cleaners of vehicles and equipment	191	231	40	21	0.99	9.18	Short-term on-the-job training
53-7062	Laborers and freight, stock, and material movers, hand	629	706	77	12	0.49	10.15	Short-term on-the-job training
53-7064	Packers and packagers, hand	163	172	9	6	0.39	8.08	Short-term on-the-job training
53-7081	Refuse and recyclable material collectors	106	129	23	22	1.25	9.17	Short-term on-the-job training
		97,855	109,637	11,782	12%		\$14.50	

 at least 1.25 greater than \$14.50

Source: EMSI



## Appendix B: Businesses by 3-Digit NAICS Codes

Beaufort County								
Industry	NAICS Code	Change						
		2003	2008	Average Size	#	%	SC % change	US % change
Crop Production	111	8	8	51	0	0.0	-11.3	-6.8
Utilities	221	8	5	29	-3	-37.5	4.0	0.5
Construction of Buildings	236	302	295	4	-7	-2.3	6.4	12.3
Heavy and Civil Engineering Construction	237	72	59	7	-13	-18.1	4.2	-0.5
Specialty Trade Contractors	238	528	517	6	-11	-2.1	-3.0	11.1
Food Manufacturing	311	10	11	5	1	10.0	-6.0	-2.1
Textile Mills	313	4	3	--	-1	-25.0	-27.8	-24.2
Textile Product Mills	314	4	7	4	3	75.0	2.6	-1.5
Wood Product Manufacturing	321	5	4	6	-1	-20.0	2.2	-5.3
Nonmetallic Mineral Product Manufacturing	327	5	6	21	1	20.0	14.1	4.1
Fabricated Metal Product Manufacturing	332	11	9	17	-2	-18.2	0.6	-0.9
Miscellaneous Manufacturing	339	10	13	4	3	30.0	18.4	-0.4
Merchant Wholesalers, Durable Goods	423	81	89	4	8	9.9	-5.9	-3.6
Merchant Wholesalers, Nondurable Goods	424	39	37	6	-2	-5.1	-11.3	-3.4
Wholesale Electronic Markets and Agents and Brokers	425	25	41	2	16	64.0	80.4	30.9
Motor Vehicle and Parts Dealers	441	65	57	16	-8	-12.3	-7.7	1.6
Furniture and Home Furnishings Stores	442	69	67	6	-2	-2.9	-8.7	0.1
Electronics and Appliance Stores	443	34	31	10	-3	-8.8	-15.0	-1.0
Building Material and Garden Equipment and Supplies Dealers	444	67	61	16	-6	-9.0	-5.4	1.2
Food and Beverage Stores	445	69	73	26	4	5.8	-9.7	-0.1
Health and Personal Care Stores	446	50	49	8	-1	-2.0	16.3	19.9
Gasoline Stations	447	55	57	7	2	3.6	-0.3	-2.2
Clothing and Clothing Accessories Stores	448	134	132	12	-2	-1.5	-1.9	5.8
Sporting Goods, Hobby, Book, and Music Stores	451	43	45	7	2	4.7	-7.0	-6.7
General Merchandise Stores	452	23	26	66	3	13.0	18.1	13.0
Miscellaneous Store Retailers	453	119	116	6	-3	-2.5	-19.8	-9.2
Nonstore Retailers	454	11	12	8	1	9.1	-16.2	13.9
Truck Transportation	484	21	18	9	-3	-14.3	-1.6	5.2
Transit and Ground Passenger Transportation	485	12	10	18	-2	-16.7	2.1	4.3
Support Activities for Transportation	488	12	17	3	5	41.7	3.4	9.9
Publishing Industries (except Internet)	511	27	22	7	-5	-18.5	14.9	1.8

Beaufort County								
Industry	NAICS Code	2003	2008	Average Size	Change		SC % change	US % change
					#	%		
Broadcasting (except Internet)	515	8	5	6	-3	-37.5	-7.3	0.0
Telecommunications	517	18	21	20	3	16.7	41.8	9.6
Credit Intermediation and Related Activities	522	114	134	8	20	17.5	6.5	16.6
Insurance Carriers and Related Activities	524	67	72	4	5	7.5	4.3	5.0
Real Estate	531	308	394	6	86	27.9	22.1	18.2
Rental and Leasing Services	532	44	47	--	3	6.8	-8.8	1.3
Professional, Scientific, and Technical Services	541	558	608	4	50	9.0	15.7	15.6
Management of Companies and Enterprises	551	6	11	41	5	83.3	67.7	31.5
Administrative and Support Services	561	313	352	11	39	12.5	10.6	13.9
Waste Management and Remediation Services	562	7	7	10	0	0.0	12.3	15.6
Educational Services	611	37	43	13	6	16.2	26.4	23.3
Ambulatory Health Care Services	621	240	281	7	41	17.1	10.2	12.4
Nursing and Residential Care Facilities	623	12	19	83	7	58.3	0.0	9.4
Amusement, Gambling, and Recreation Industries	713	71	67	30	-4	-5.6	-5.5	9.7
Accommodation	721	54	63	41	9	16.7	0.1	4.9
Food Services and Drinking Places	722	355	393	23	38	10.7	3.4	11.5
Repair and Maintenance	811	101	107	6	6	5.9	-13.2	-0.9
Personal and Laundry Services	812	122	116	10	-6	-4.9	2.2	7.2
Religious, Grantmaking, Civic, Professional, and Similar Organizations	813	65	70	29	5	7.7	18.3	4.1
Private Households	814	148	133	1	-15	-10.1	21.2	22.1

growth rate exceeds both SC and US growth rates

Source: Bureau of Labor Statistics

## Appendix C: Beaufort County Employment by Industry Sector

Industry	NAICS code	Employment		2003-2008 Change		Location Quotient	Competitive Effect	2008 Average Annual Wage (\$)	Projected Growth
		2003	2008	#	%				
Total		57,059	61,781	4,722	8.3			32,163	12%

<i>6 star sectors</i>									
Industry	NAICS code	Employment		2003-2008 Change		Location Quotient	Competitive Effect	2008 Average Annual Wage (\$)	Projected Growth
		2003	2008	#	%				
Real Estate	531	1,674	2,323	649	39	3.41	542	36,950	A

<i>5 star sectors</i>									
Industry	NAICS code	Employment		2003-2008 Change		Location Quotient	Competitive Effect	2008 Average Annual Wage (\$)	Projected Growth
		2003	2008	#	%				
Food and Beverage Stores	445	1,717	1,872	155	9	1.41	140	22,995	AA
Clothing and Clothing Accessories Stores	448	1,143	1,631	488	43	2.39	346	16,261	A
Miscellaneous Store Retailers	453	606	694	88	15	1.78	149	19,813	AA
Credit Intermediation and Related Activities	522	997	1,086	89	9	0.86	111	51,637	A
Management of Companies and Enterprises	551	57	447	390	684	0.51	382	50,163	A
Amusement, Gambling, and Recreation Industries	713	1,769	2,001	232	13	3.01	72	20,905	A
Food Services and Drinking Places	722	7,499	8,919	1,420	19	2.01	563	16,015	A

4 star sectors		Employment		2003-2008 Change		Location Quotient	Competitive Effect	2008 Average Annual Wage (\$)	Projected Growth
Industry	NAICS code	2003	2008	#	%				
Nonmetallic Mineral Product Manufacturing	327	78	125	47	60	0.58	52	39,739	AA
Merchant Wholesalers, Nondurable Goods	424	156	218	62	40	0.23	59	43,474	AA
Wholesale Electronic Markets and Agents and Brokers	425	70	100	30	43	0.25	10	61,753	AA
Electronics and Appliance Stores	443	174	301	127	73	1.17	115	31,276	AA
Nonstore Retailers	454	59	101	42	71	0.50	40	43,320	AA
Scenic and Sightseeing Transportation	487	48	63	15	31	4.79	12	25,184	A
Publishing Industries (except Internet)	511	132	149	17	13	0.37	24	56,322	A
Insurance Carriers and Related Activities	524	290	318	28	10	0.32	25	49,702	A
Professional, Scientific, and Technical Services	541	2,367	2,594	227	10	0.72	-192	55,915	A
Educational Services	611	471	555	84	18	0.51	2	28,597	A
Ambulatory Health Care Services	621	1,728	2,074	346	20	0.79	37	48,503	BA
Nursing and Residential Care Facilities	623	754	1,574	820	109	1.13	756	26,824	AA
Repair and Maintenance	811	486	593	107	22	1.05	109	31,397	AA

3 star or fewer sectors		Employment		2003-2008 Change		Location Quotient	Competitive Effect	2008 Average Annual Wage (\$)	Projected Growth
Industry	NAICS code	2003	2008	#	%				
Specialty Trade Contractors	238	3,395	3,066	-329	-10	1.46	-576	34,574	A
Wood Product Manufacturing	321	20	24	4	20	0.11	7	29,173	A
Miscellaneous Manufacturing	339	35	46	11	31	0.16	13	25,041	AA
Furniture and Home Furnishings Stores	442	354	375	21	6	1.54	35	29,264	AA
Building Material and Garden Equipment and Supplies Dealers	444	900	967	67	7	1.67	25	31,466	AA
Health and Personal Care Stores	446	353	394	41	12	0.85	15	30,771	A
Motion Picture and Sound Recording Industries	512	106	131	25	24	0.74	22	17,921	A
Telecommunications	517	448	427	-21	-5	0.90	4	62,915	AA

3 star or fewer sectors		Employment		2003-2008 Change		Location Quotient	Competitive Effect	2008 Average Annual Wage (\$)	Projected Growth
Industry	NAICS code	2003	2008	#	%				
Administrative and Support Services	561	3,512	3,709	197	6	1.05	4	25,532	A
Utilities	221	166	147	-19	-11	0.57	-14	61,718	A
Construction of Buildings	236	1,497	1,269	-228	-15	1.67	-301	45,634	BA
Textile Product Mills	314	15	30	15	100	0.44	18	31,801	D
Printing and Related Support Activities	323	92	130	38	41	0.47	49	32,163	D
Merchant Wholesalers, Durable Goods	423	402	387	-15	-4	0.27	-34	56,797	AA
Motor Vehicle and Parts Dealers	441	957	916	-41	-4	1.08	-15	38,293	A
Gasoline Stations	447	415	422	7	2	1.08	24	20,450	AA
Support Activities for Transportation	488	64	57	-7	-11	0.21	-16	44,703	AA
Broadcasting (except Internet)	515	71	29	-42	-59	0.20	-40	43,519	AA
Waste Management and Remediation Services	562	154	72	-82	-53	0.44	-101	45,746	AA
Personal and Laundry Services	812	1,107	1,182	75	7	1.93	22	22,203	BA
Religious, Grantmaking, Civic, Professional, and Similar Organizations	813	1,986	1,999	13	1	3.16	-94	31,349	A
Crop Production	111	470	408	-62	-13	1.64	-46	18,743	
Heavy and Civil Engineering Construction	237	1,508	407	-1,101	-73	0.91	-1,219	39,506	BA
Food Manufacturing	311	79	58	-21	-27	0.08	-19	16,125	AA
Fabricated Metal Product Manufacturing	332	216	156	-60	-28	0.22	-68	45,868	D
Sporting Goods, Hobby, Book, and Music Stores	451	312	319	7	2	1.07	12	17,694	BA
General Merchandise Stores	452	1,660	1,727	67	4	1.23	-68	19,625	A
Truck Transportation	484	165	159	-6	-4	0.25	-15	24,550	A
Couriers and Messengers	492	224	181	-43	-19	0.68	-47	37,011	BA
Accommodation	721	2,640	2,610	-30	-1	3.03	-166	26,298	BA
Private Households	814	171	155	-16	-9	0.58	-51	18,503	AA
Furniture and Related Product Manufacturing	337	79	59	-20	-25	0.27	-7	31,727	D
Transit and Ground Passenger Transportation	485	327	175	-152	-46	0.91	-187	16,291	BA

## Methodology and Sourcing

### Projected Growth Grading Scale:

AA=above average

A=average

BA=below average

D=decline

**Sectors are rated on 6 factors:** 2003-2008 employment growth, 2003-2008 employment growth rate, location quotient, competitive effect, average annual wage, and projected growth.

**Stars are based on:** 2003-2008 employment growth over 75, 2003-2008 employment growth rate greater than 8.3% (overall county growth rate), location quotient of at least 1.25, competitive effect greater than 0, average annual wage greater than \$32,163 (2008 average for all jobs in the county), and average or above average projected growth.

**Location Quotient:** percentage of employment in the sector in the county divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in the county; based on 2008 data.

**Competitive Effect:** based on shift-share analysis; represents the change in employment in the sector in the county after accounting for overall US employment growth and growth/decline in the sector in the US.

**Source:** Bureau of Labor Statistics; projections based on data from EMSI and SC Department of Commerce.





South Carolina  
Department of Commerce  
1201 Main Street, Suite 1600  
Columbia, SC 29201

(800) 868-7232  
(803) 737-0400  
[www.sccommerce.com](http://www.sccommerce.com)